

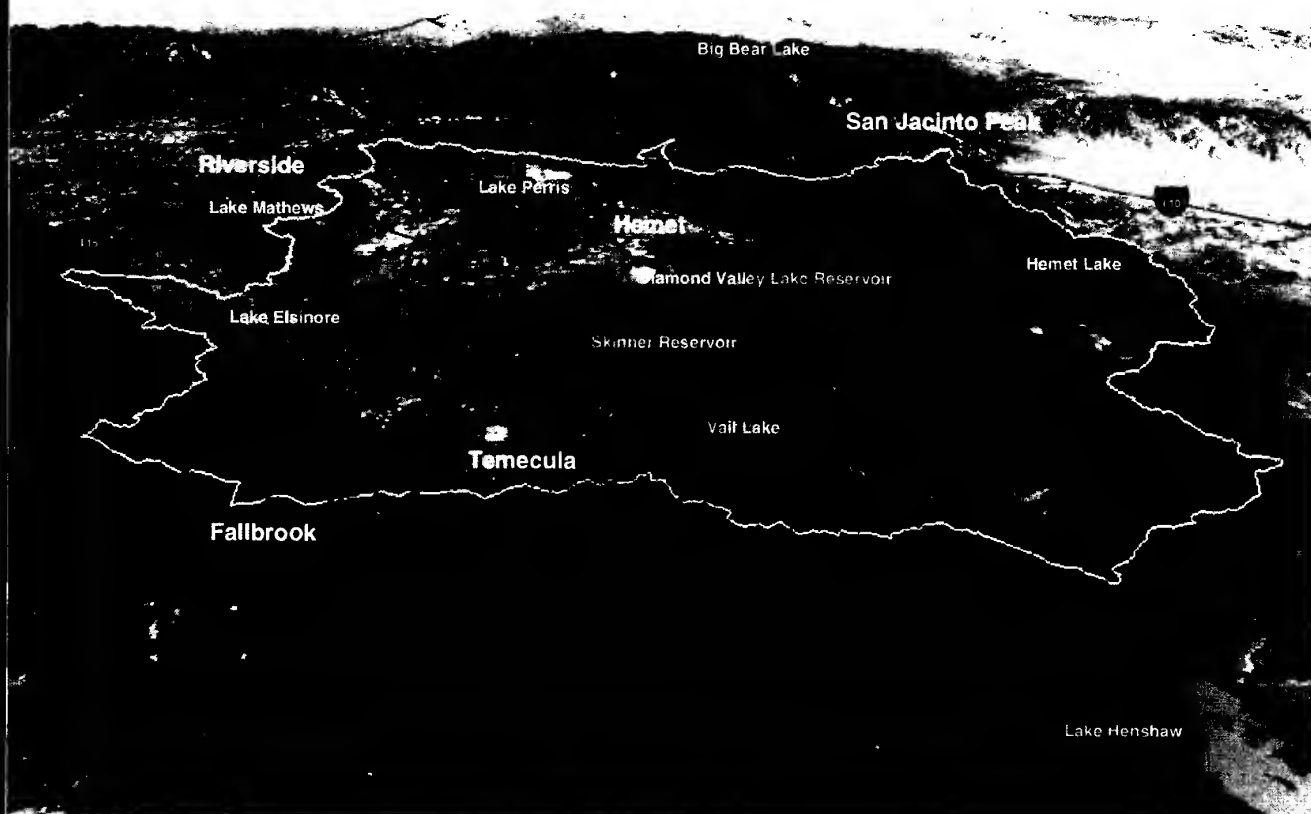


**US Army Corps  
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Development Center

## **Map Series of Aquatic Resources for San Jacinto and Portions of the Santa Margarita Watersheds**

Robert W. Lichvar and Michael Ericsson

May 2003



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May 2003

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Robert W. Lichvar and Michael Ericsson

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Washington, DC

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## ABSTRACT

The purpose of the map series presented here is to visually present the identified aquatic resources in San Jacinto River and portions of the Santa Margarita River watersheds in western Riverside County, California, as part of the Special Area Management Plan (SAMP). A SAMP is a comprehensive aquatic resource planning effort in the context of Section 404 of the Clean Water Act (CWA). The U.S. Army Corps of Engineers, Los Angeles District is leading the development of the SAMP, and the Riverside County Flood Control District, representing the County of Riverside, is the local stakeholder. These are the spatial results of an overall study undertaken by the SAMP. The size of the study area is 36,1953 ha (894,405 acres). Mapped results of this study were compiled in the field using ArcView 3.2 geographic information system (GIS) and mapped at a scale of 1:4800 using Color Infra-Red Digital Orthoquads (DOQ) imagery. A unique method of combining the occurrence of vegetation communities and fluvial surfaces to determine the probability of being regulated was used to identify aquatic resources that might be considered as regulated under Section 404 of the CWA.

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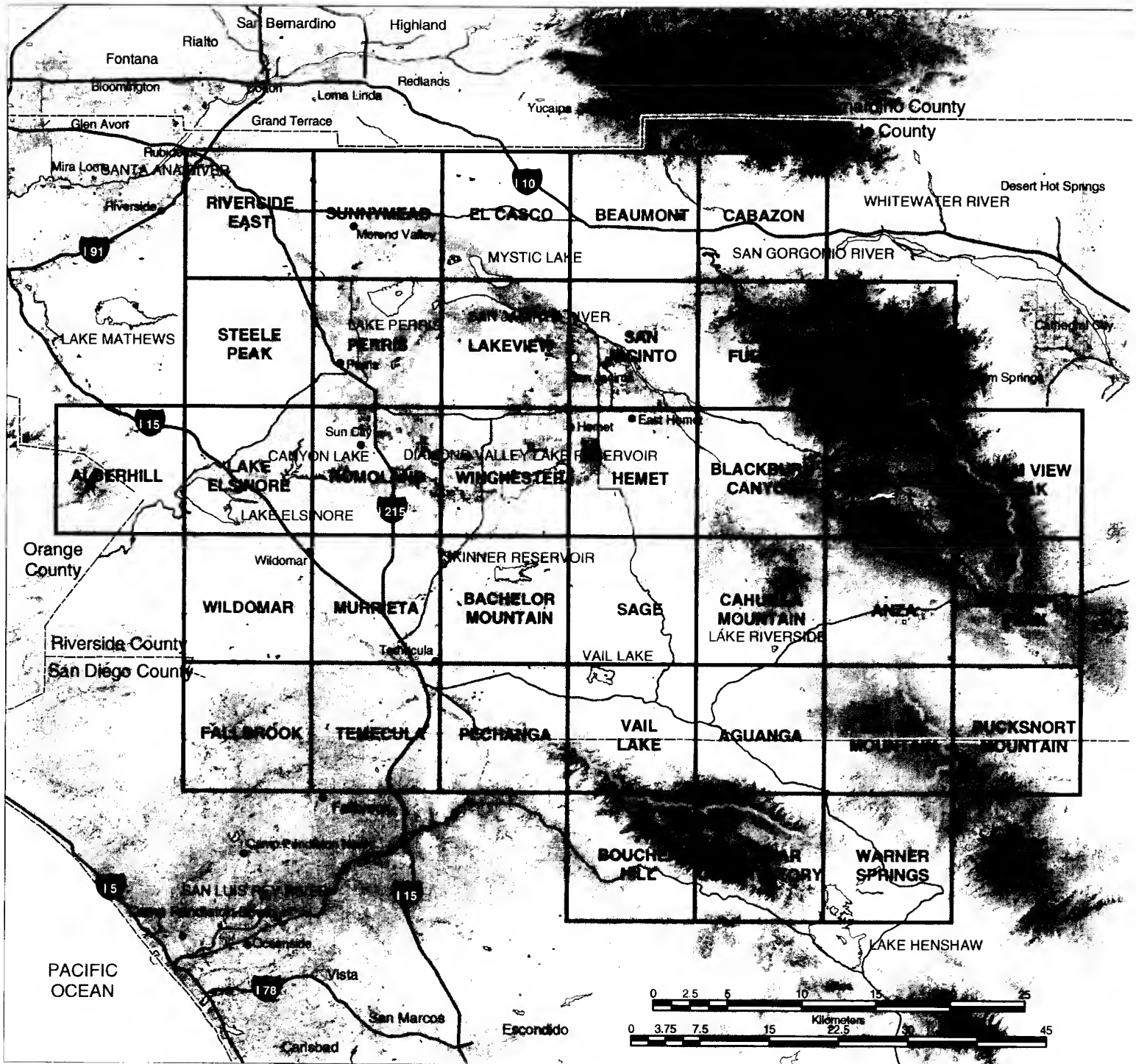
## **PREFACE**

This report was prepared by Robert Lichvar, Research Ecologist, and Michael Ericsson, Geologist, both of the Remote Sensing/GIS and Water Resources Branch, U.S. Army Cold Regions Research and Engineering Laboratory (CRREL), Engineer Research and Development Center (ERDC).

Funding was provided by the U.S. Environmental Protection Agency (EPA) and Riverside County Flood Control and Water Conservation District (RCFCD), California. The authors acknowledge Zully Smith (RCFCD) and Fari Tabatabai, Los Angeles District, Corps of Engineers, for oversight and guidance throughout the study. They also thank Mary Butterwick, EPA, for her comments and suggestions dealing with scientific aspects of the study.

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# USGS Quad-Based Map Index



# Map Series of Aquatic Resources for San Jacinto and Portions of the Santa Margarita Watersheds

ROBERT W. LICHVAR AND MICHAEL ERICSSON

## INTRODUCTION

The overall purpose of the map series presented here is to identify aquatic resources in San Jacinto River and portions of the Santa Margarita River watersheds in western Riverside County as part of the Special Area Management Plan (SAMP). A SAMP is a comprehensive aquatic resource planning effort in the context of Section 404 of the Clean Water Act. The ultimate goal of the SAMP is to provide a management tool that helps reach a balance between protection of aquatic resources and reasonable economic development. The U.S. Army Corps of Engineers (USACE), Los Angeles District is leading the development of the SAMP in western Riverside County, California. The Riverside County Flood Control District, representing the County of Riverside, is the local stakeholder in the development of the SAMP.

The map series represents the results of the SAMP planning level delineation of aquatic resources that was performed by Lichvar et al. (2003) from the Engineering and Research Development Center, Cold Regions Research and Engineering Laboratory (CRREL). A planning-level delineation identifies those areas that meet both the jurisdictional requirements under Section 404 of the Clean Water Act and the California Department of Fish and Game (CDFG) Section 1600 Code at a watershed scale. Although the delineation is highly accurate at the planning level, it is not specific to any one site. Thus, a planning-level wetland delineation does not replace the need for a jurisdictional wetland delineation from the Corps of Engineers (COE) permitting program or the CDFG Section 1600 requirements. As such, these maps display the baseline occurrence of aquatic resources that were observed in these watersheds during the study period (August 2001 to May 2002).

## Study Area

The San Jacinto River and portions of the Santa Margarita River watersheds together encompass approximately 36,1953 ha (894,405 acres) and are located 12 km (7.5 miles) southeast of the city of Riverside in Riverside County, California. The cities of Temecula and Murrietta are located within the Santa Margarita watershed. The cities located within the San Jacinto watershed include Moreno Valley, Perris, San Jacinto, and Hemet. The watersheds are bounded by the Cleveland National Forest on the west and south and the San Bernardino National Forest to the northeast. The southern boundary of the study area was limited to the border of Riverside County and did not cross into San Diego County. However, in some instances, subwatersheds draining from San Diego County into Riverside County were inventoried and mapped because they influence the riparian wetlands and flooding within Riverside County.

## Methods

### *Mapping protocols*

Potential aquatic resources were initially identified by interpretation of color infra-red digital orthoquads (DOQ) imagery obtained from the USGS (via the Internet). Aquatic resources were delineated in the field using the DOQs within a customized ArcView 3.2 geographic information system (GIS) on a Fujitsu 3500 Stylistic pen tablet computer. All mapping was at a scale of 1:4800, with a minimum mapping unit size of approximately 405 m<sup>2</sup> (0.1 acres). Using the GIS in the field allowed for viewing of support spatial databases (i.e. roads, contours, parcel information, etc) to better identify all potential aquatic resources.

The first-order, ephemeral, and intermittent streams were initially identified and delineated by interpretation of the DOQs remotely. In several instances, second- and third-order streams (Strahler 1952) were also identified as a single blue line because of their narrow width resulting from human influences that cause downcutting within the channel. These categories of streams, identified in this booklet as “Ephemeral Streams,” are typically up to 10 feet wide and lack floodplain surfaces. Ephemeral streams were verified for accuracy and precision using the field GIS as potential aquatic resources were delineated. Vegetation associated with washes that lacked floodplain terraces were assigned a hydrogeomorphic floodplain code of “Non-Floodplain Riparian.”

### *Vegetation classification*

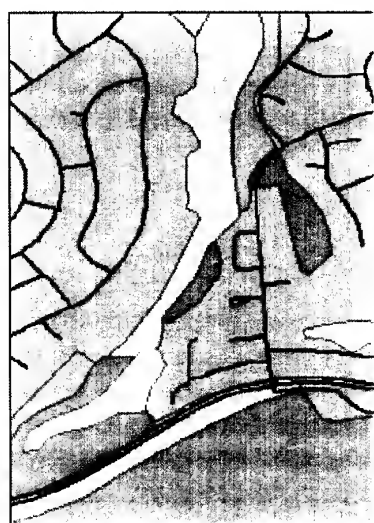
Vegetation map units were developed through a series of modifications to the California natural community classification by Holland (1986). In previous SAMP efforts in other watersheds in southern California, CRREL found that existing vegetation classifications lacked sensitivity for use in watershed-scale wetland delineations. To meet the needs of identifying wetlands, we developed a classification that followed the hierarchical schemes of both Holland and Sawyer and Keeler-Wolf (1995) but added another level of specificity at the species level (see legend). Our classification shares the use of growth forms and dominant species, with expanded use of additional species identifiers for both native and non-native units. Figure 1 shows a comparison of the level of detail associated with the Holland and the USACE growth and species level classifications. In this map book, only the

species-association-level map units are shown. The complete report and growth-form- and species-association-level maps and all other pertinent spatial layers are provided at the web site: [https://m2.crrel.usace.army.mil/pls/watershed/WATERSHED\\_out2.watershedStart\\_pk](https://m2.crrel.usace.army.mil/pls/watershed/WATERSHED_out2.watershedStart_pk)

### *Hydrogeomorphic floodplain classification*

Hydrogeomorphic floodplain units were mapped for the purposes of indicating flood frequency for use in delineation purposes. Typically floodplain terraces develop on second-order, third-order and greater Strahler stream types. First-order streams typically lacked floodplain terraces since they are located on steeper slopes, have smaller drainage areas, and are confined to bedrock channels that limit their ability to create floodplain terraces.

In this study the two floodplains map units identified in the field were the active and abandoned floodplain terraces (Fig. 2). The active floodplain, in this study, contains the bankfull and the adjacent active floodplain terrace that contains features associated with frequent flooding. These features include high-flow channels, unvegetated surfaces, bed and bank, and a break in slope. The abandoned floodplain terrace is above the active floodplain and contains features associated with infrequent flooding and seasonally wet areas. Potentially regulated hydrologic features in this terrace are driven by infrequent overbank flooding, local precipitation, and occasional groundwater discharge within paleo channels and other depressional features. Often there is a distinct change of vegetation community from the active to the abandoned



Holland  
Units



Growth Form Units



USACE Vegetation Units

Species – Association

Figure 1. Comparison of vegetation classifications.

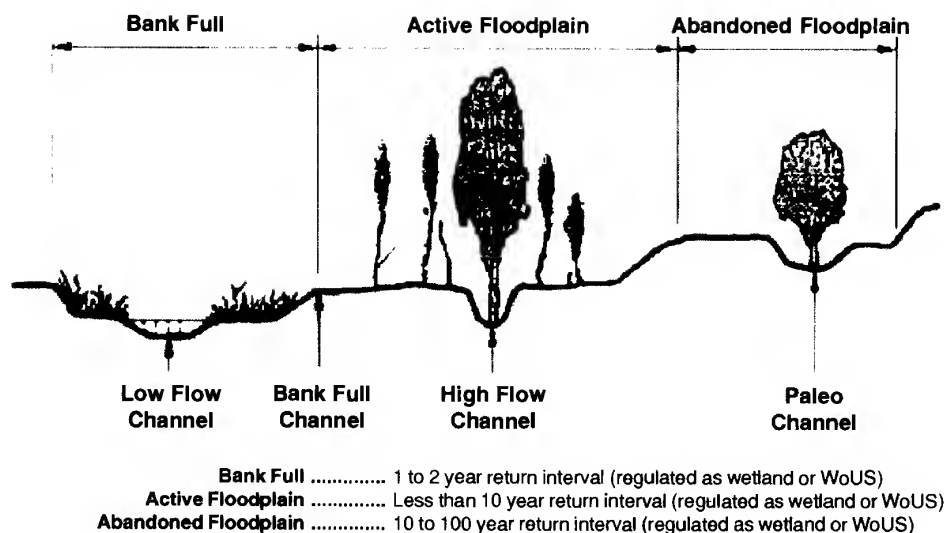


Figure 2. Hydrogeomorphic floodplain units.

floodplain. The cross section in Figure 2 represents the ideal floodplain development, but in some instances one or more terraces may be lacking because of human influence, local soil conditions and geomorphology, or local precipitation patterns.

#### Delineation technique

The modification of standard delineation sampling protocols and the development of wetland probability ratings for Section 404 regulatory purposes for the riparian vegetation map units allowed for a watershed-scale delineation. The sampling protocols outlined in the Corps of Engineers Wetlands Delineation Manual (Environmental Laboratory 1987) and "Waters of the United States" (WoUS) at 33 CFR 328 were modified for use at the watershed scale. To delineate at this scale, riparian corridors were mapped for hydrogeomorphic surfaces representing a combined bankfull and active floodplain and a separate abandoned floodplain terrace (Fig. 2), which were later interpreted for return-interval requirements under Section 404. Individual vegetation units at the species-association level were sampled at 169 sites to develop a char-

acterization of the indicators for both wetlands and other WoUS. By combining field sampling results for wetland occurrences within various mapped vegetation types with the flood frequency information obtained from the geomorphic surface map, probability ratings intended for regulatory purposes were developed to accommodate all variations. Six categories of wetland or WoUS ratings were assigned to each of the riparian vegetation units, with ratings ranging from always regulated to upland or not regulated (Table 1).

## RESULTS

We delineated 16,043 ha (39,643 acres) of aquatic resources in the riparian areas and 12,701 km (7,892 miles) of intermittent streams as WoUS within both watersheds.

#### Book format

The format of this field map book is based on the U.S. Geological Survey (USGS) 1:24,000 quadrangle boundaries. To locate an area of interest, use the USGS Quadrangle Index

Table 1. Wetland / WoUS ratings assigned to riparian vegetation types

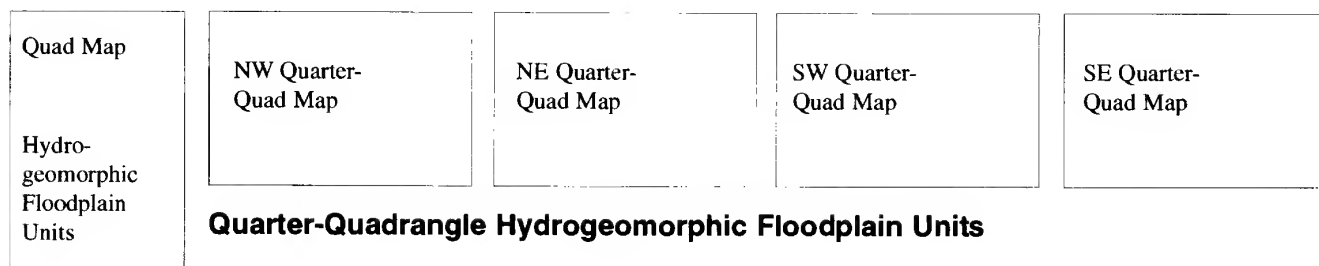
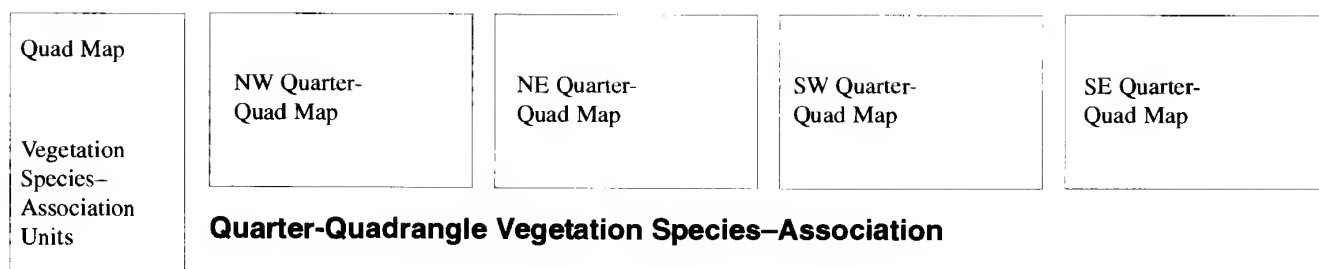
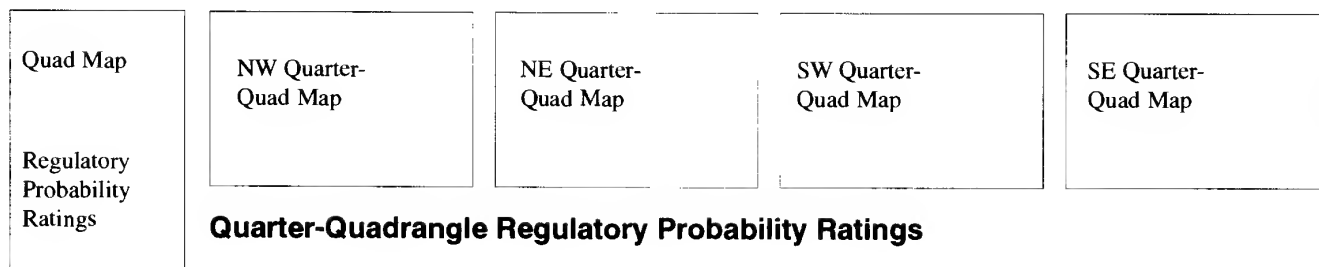
Rating	Description
1	Types meet the criteria for a wetland or WoUS 100% of the time
2	Types meet the criteria for a wetland or WoUS 67–98% of the time
3	Types meet the criteria for a wetland or WoUS 33–66% of the time
4	Types meet the criteria for a wetland or WoUS 2–32% of the time (primarily uplands)
5	Types meet the criteria for a wetland or WoUS <2% of the time (primarily uplands)
6	Unregulated upland



page and identify the quadrangle name for a specific location within the study area. Then find the tab with the quadrangle name, which will bring you to the map series for the identified quadrangle. Each quadrangle map\* within the study area is divided into quarters to create quarter-quadrangle maps. This provides two map scales to view. The quarter-quadrangle

\*An explanation of map units and other support information is provided on the legend in the back of this book.

maps show more detail than the quadrangle maps. There are three map layers for each quadrangle and quarter-quadrangle map. The “Regulatory Probability Ratings” is the first map in the series, followed by the “Vegetation Species – Association Units” and “Hydrogeomorphic Floodplain Units.” The order of these maps in this book is listed below:



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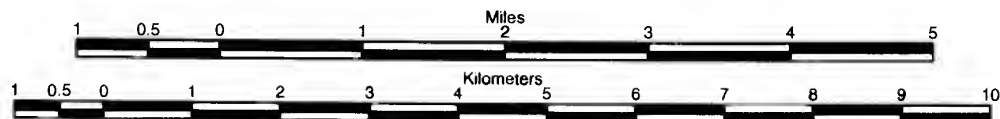
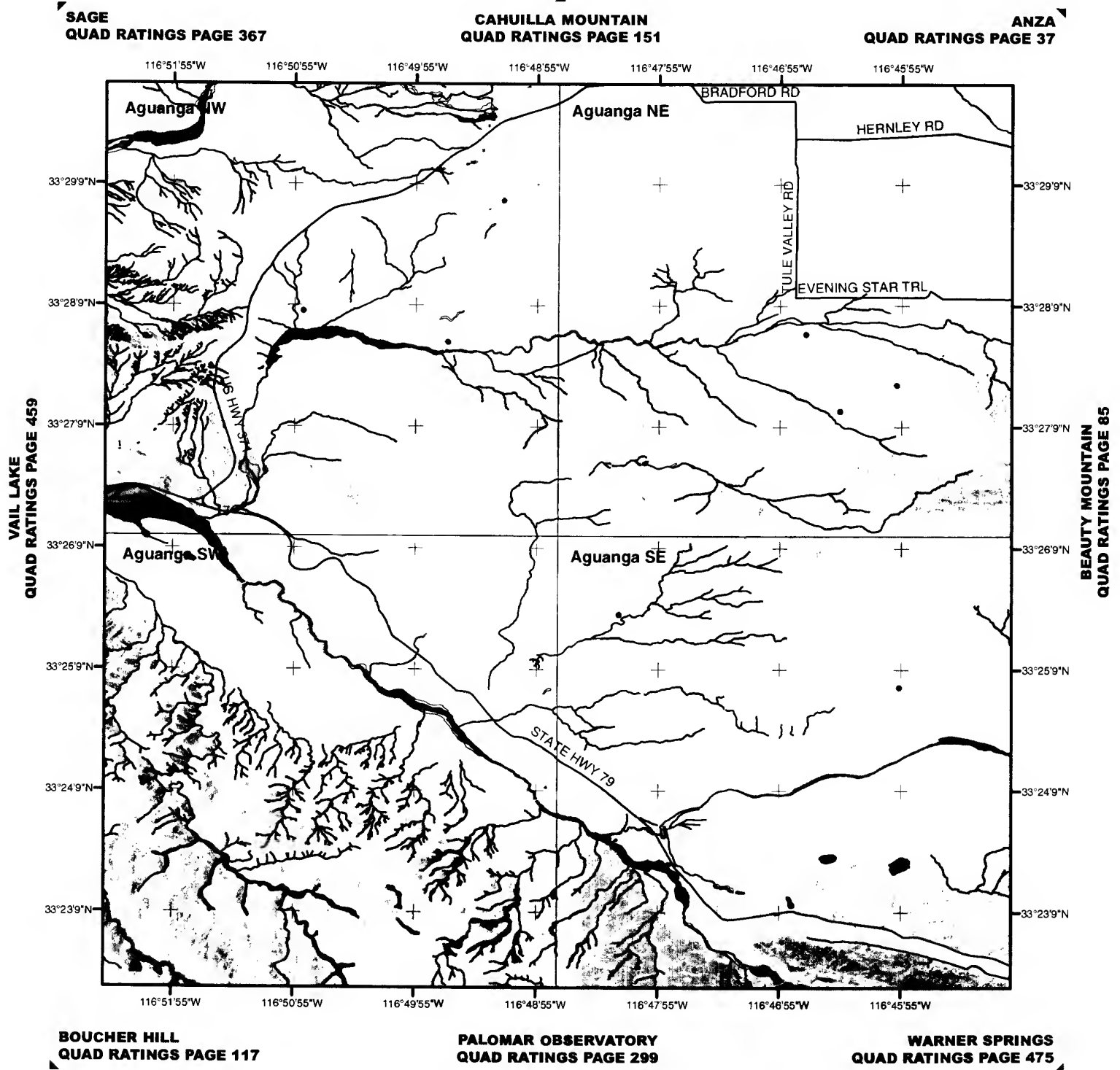
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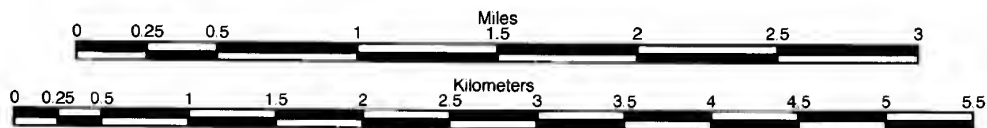
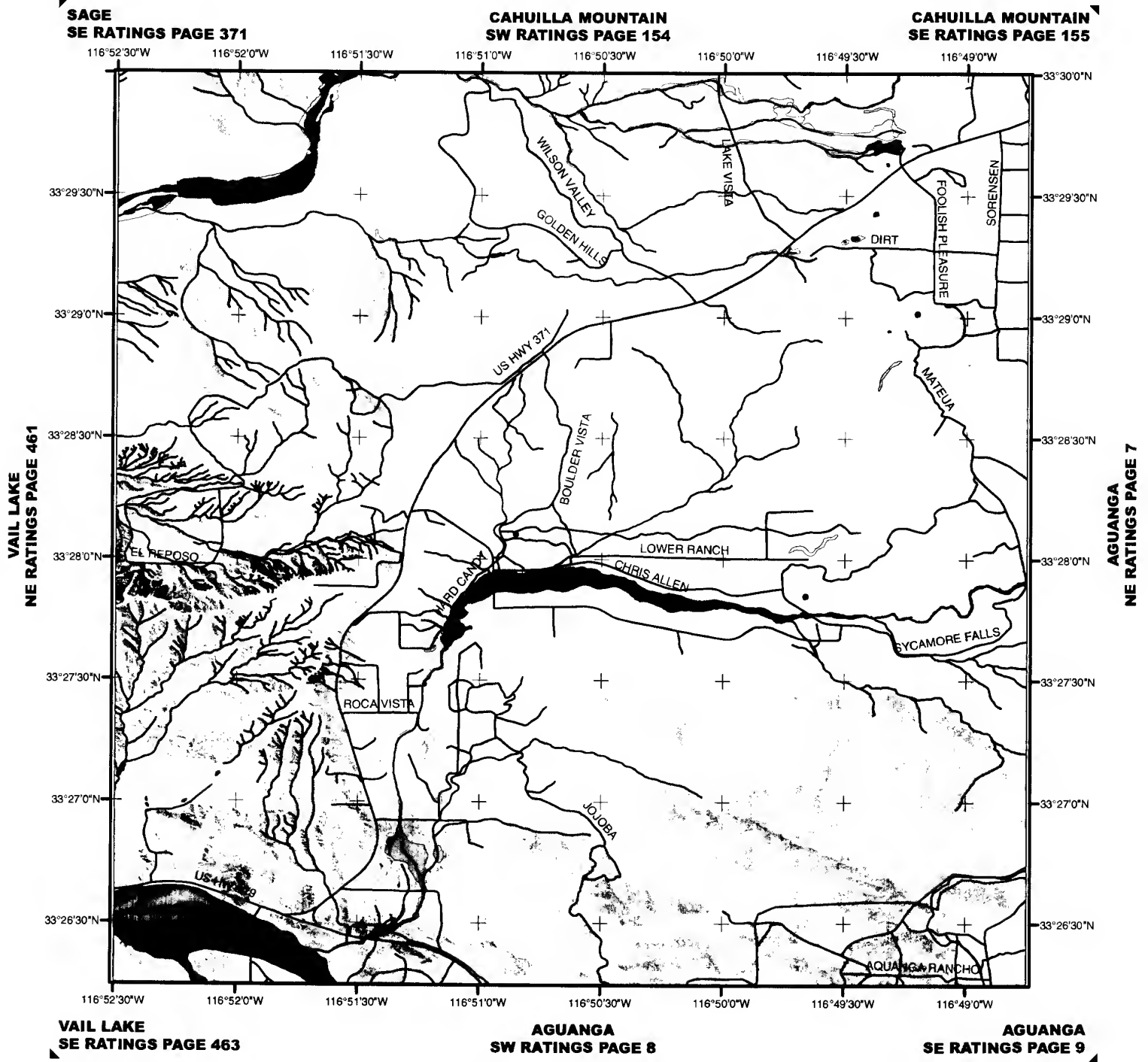
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# Aguanga Quadrangle

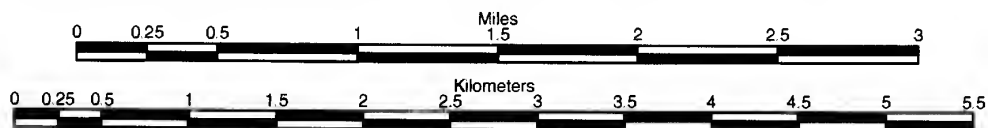
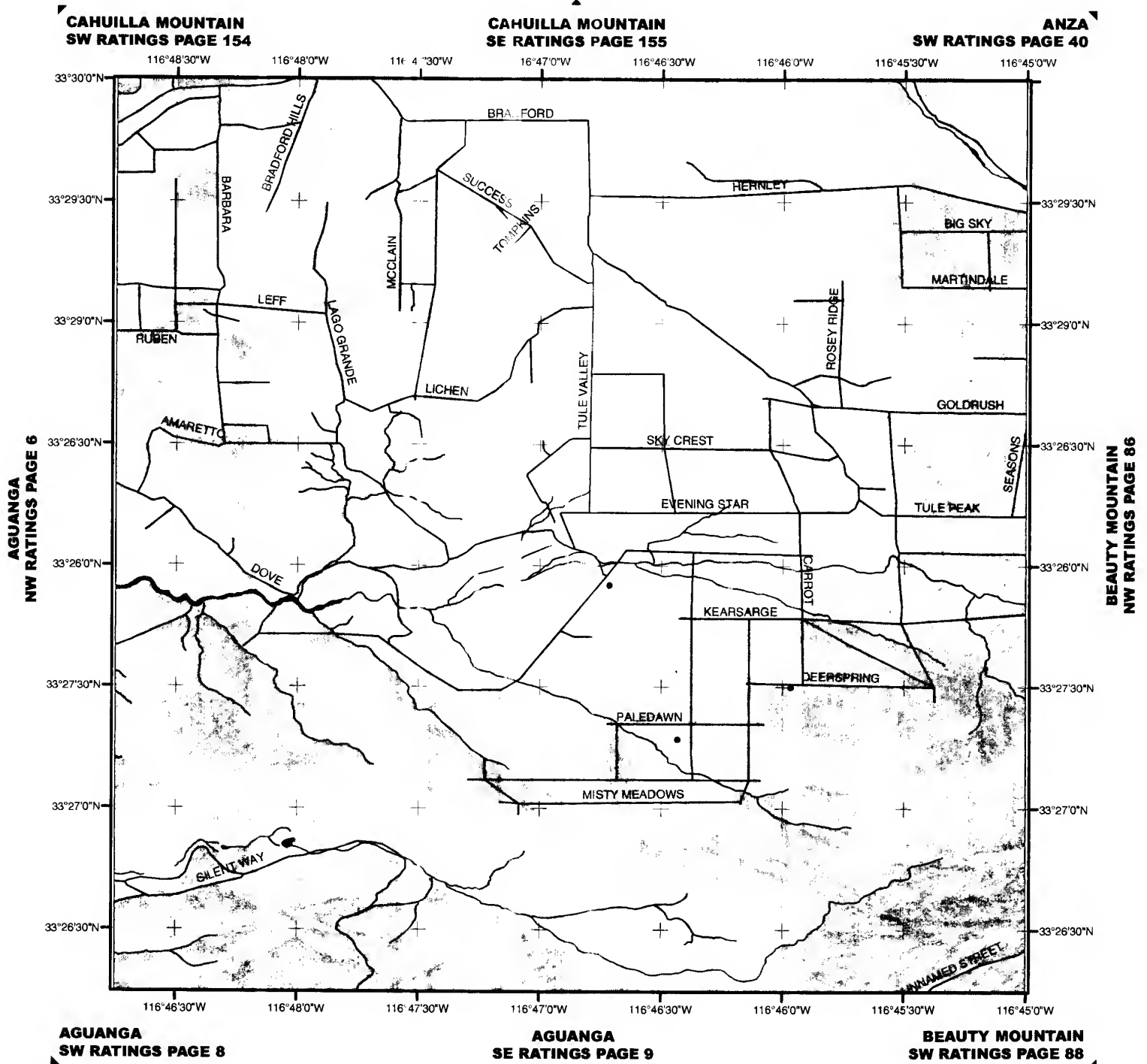
## Regulatory Probability Ratings for Aquatic Resources



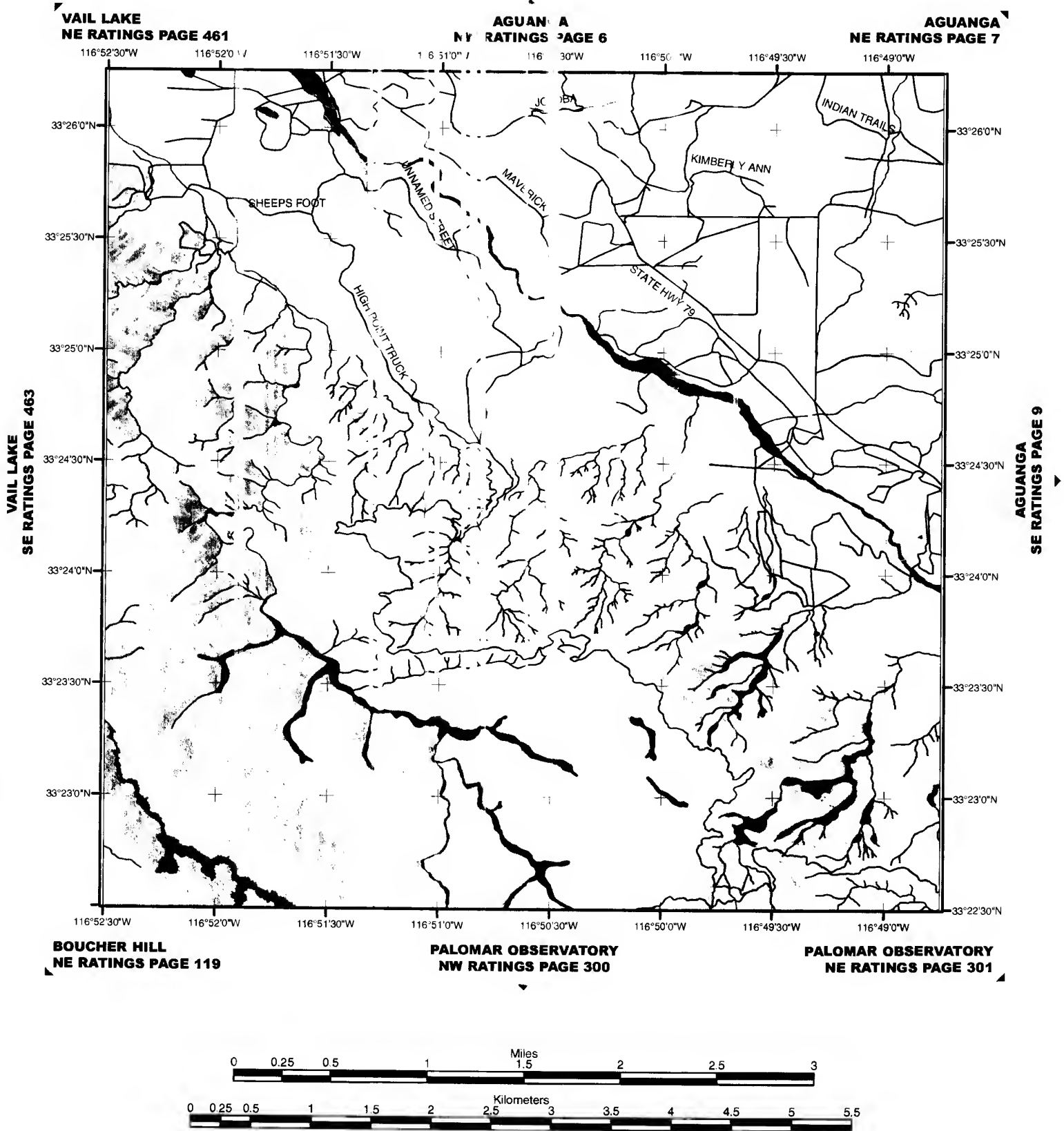
# Aguanga North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



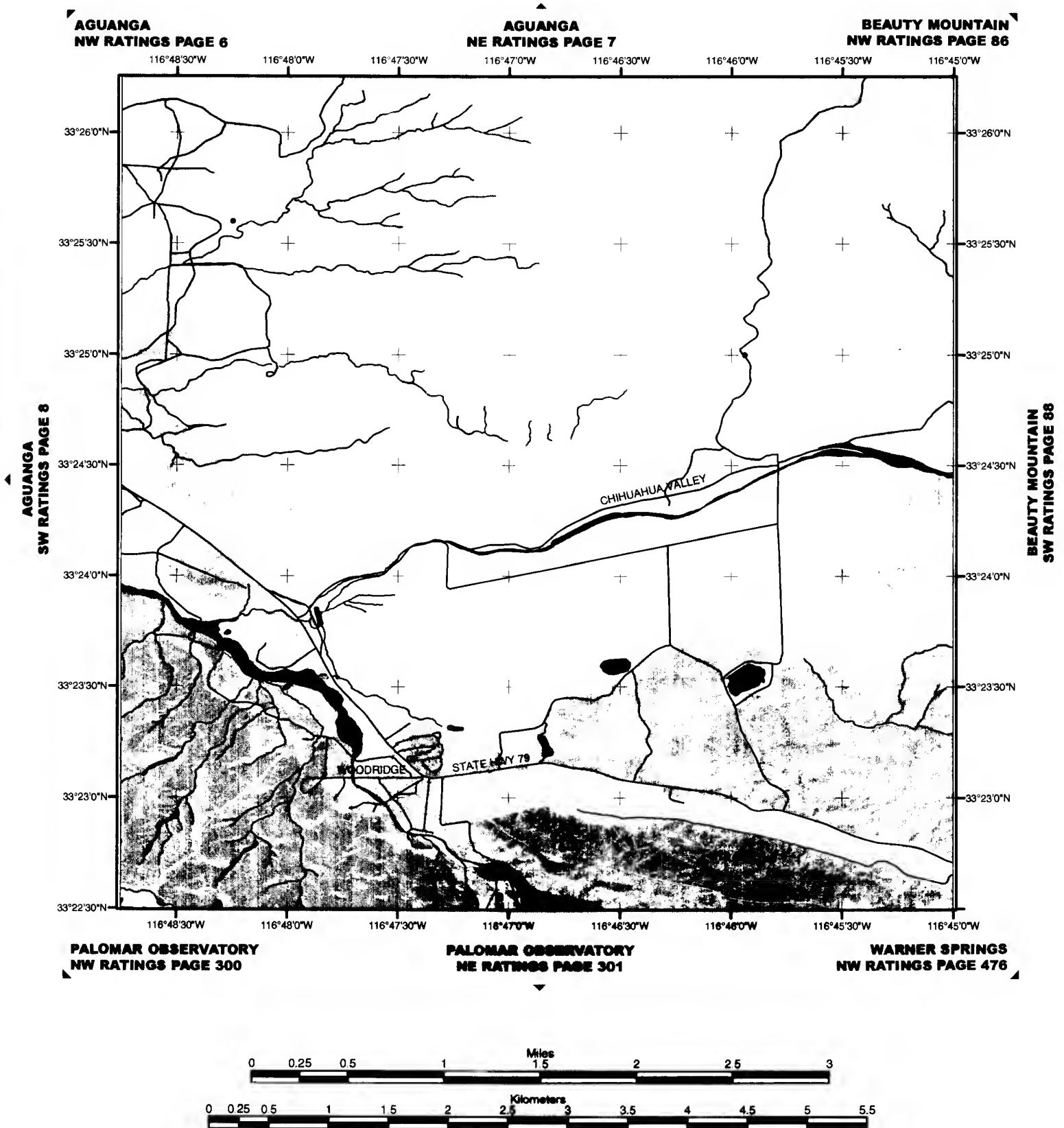
# Aguanga North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



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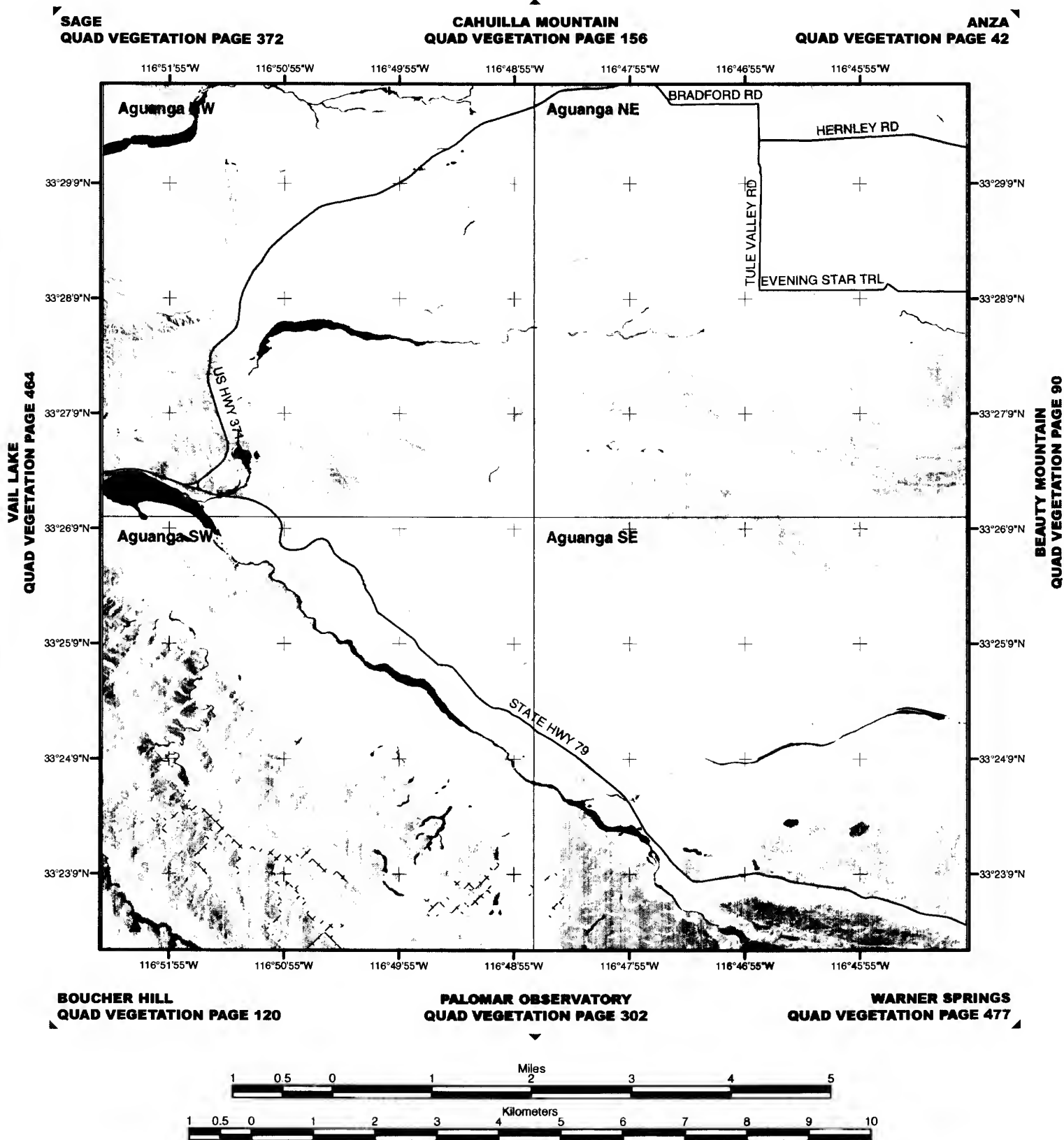


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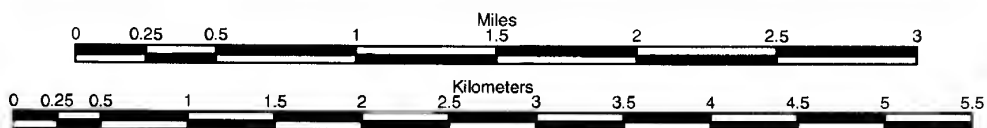
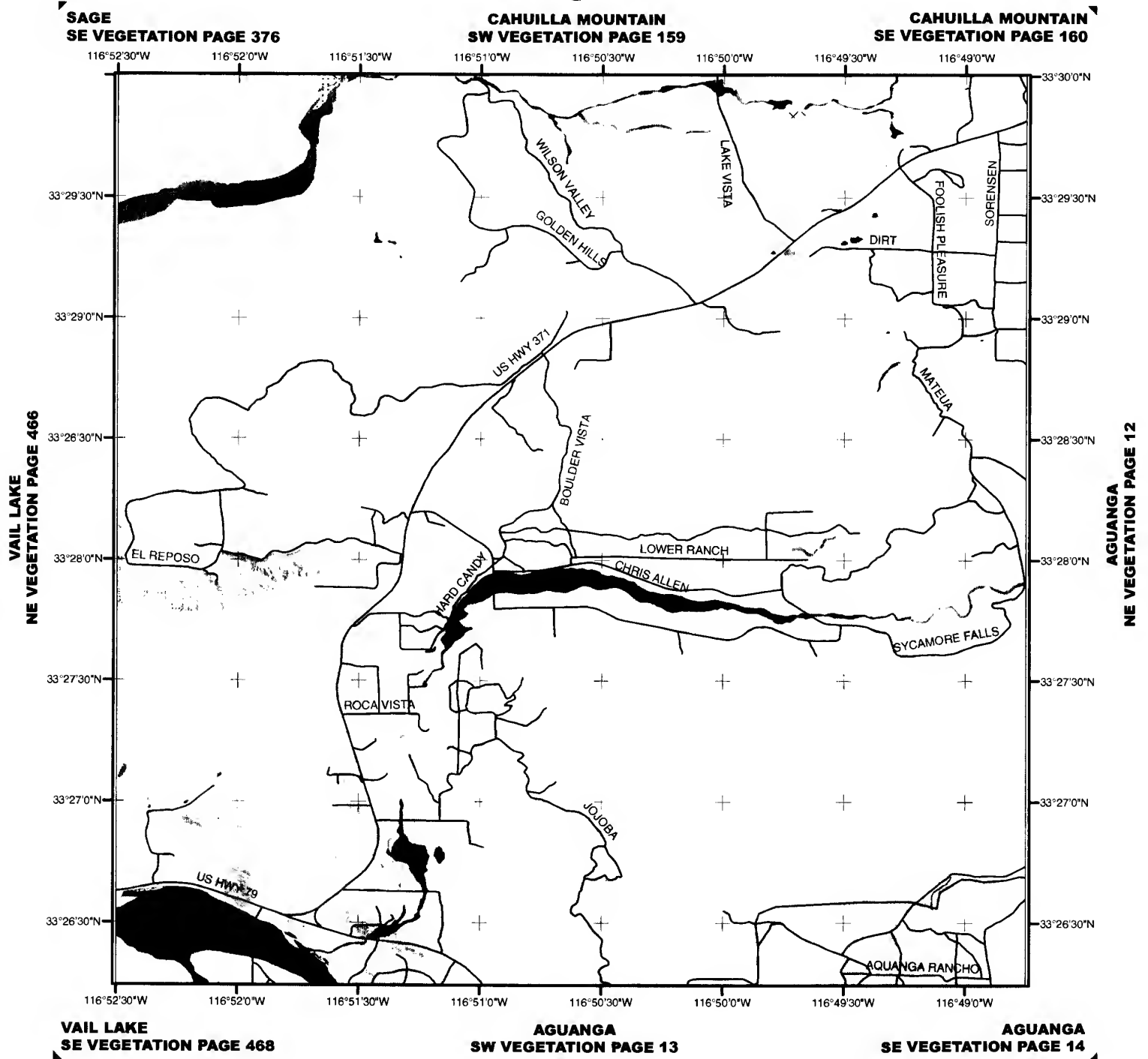
# Aguanga Quadrangle

## Vegetation Species Association Units for Aquatic Resources



# Aguanga North West Quarter-Quadrangle

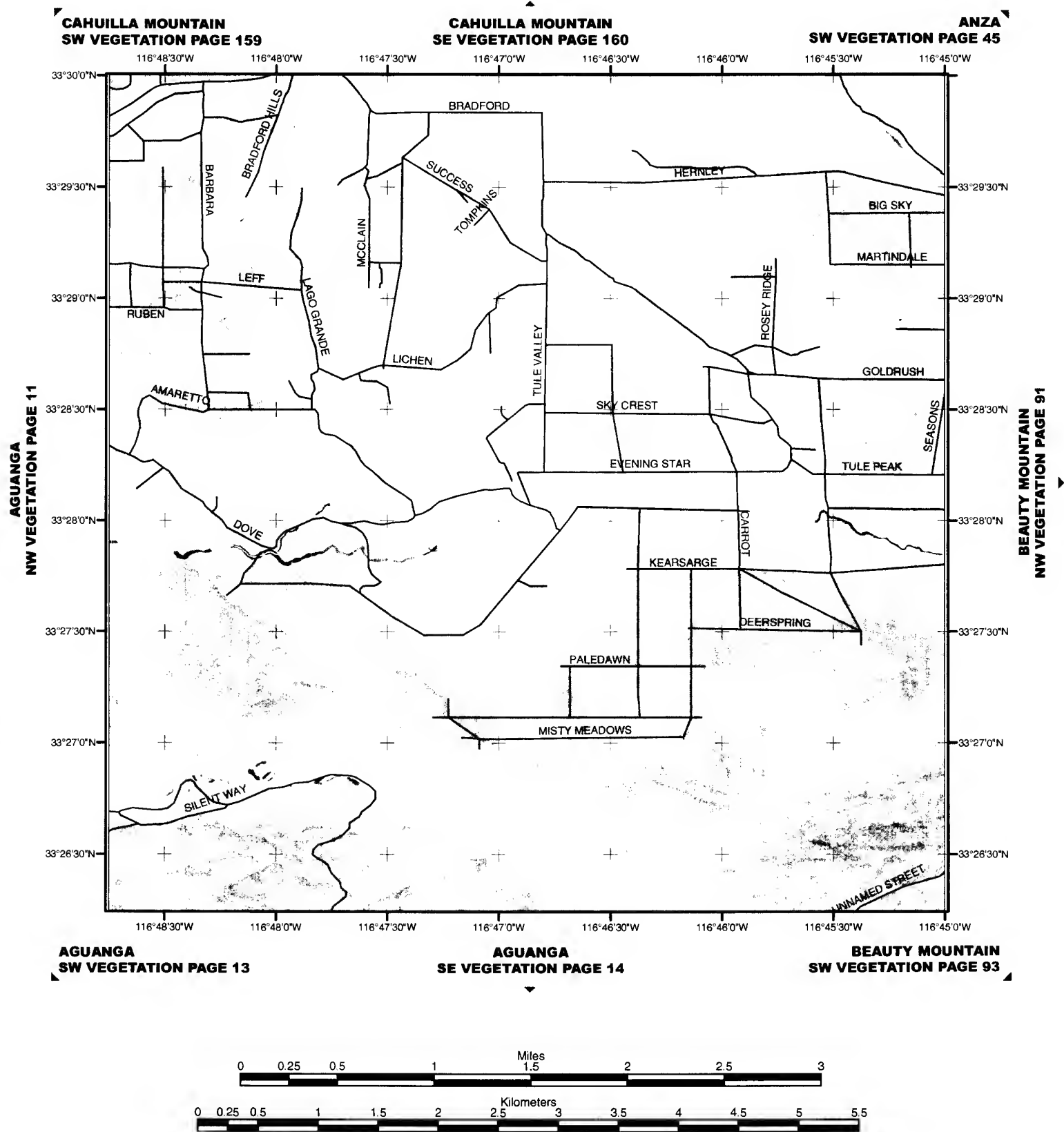
## Vegetation Species Association Units for Aquatic Resources



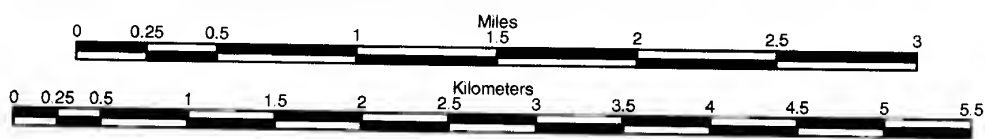
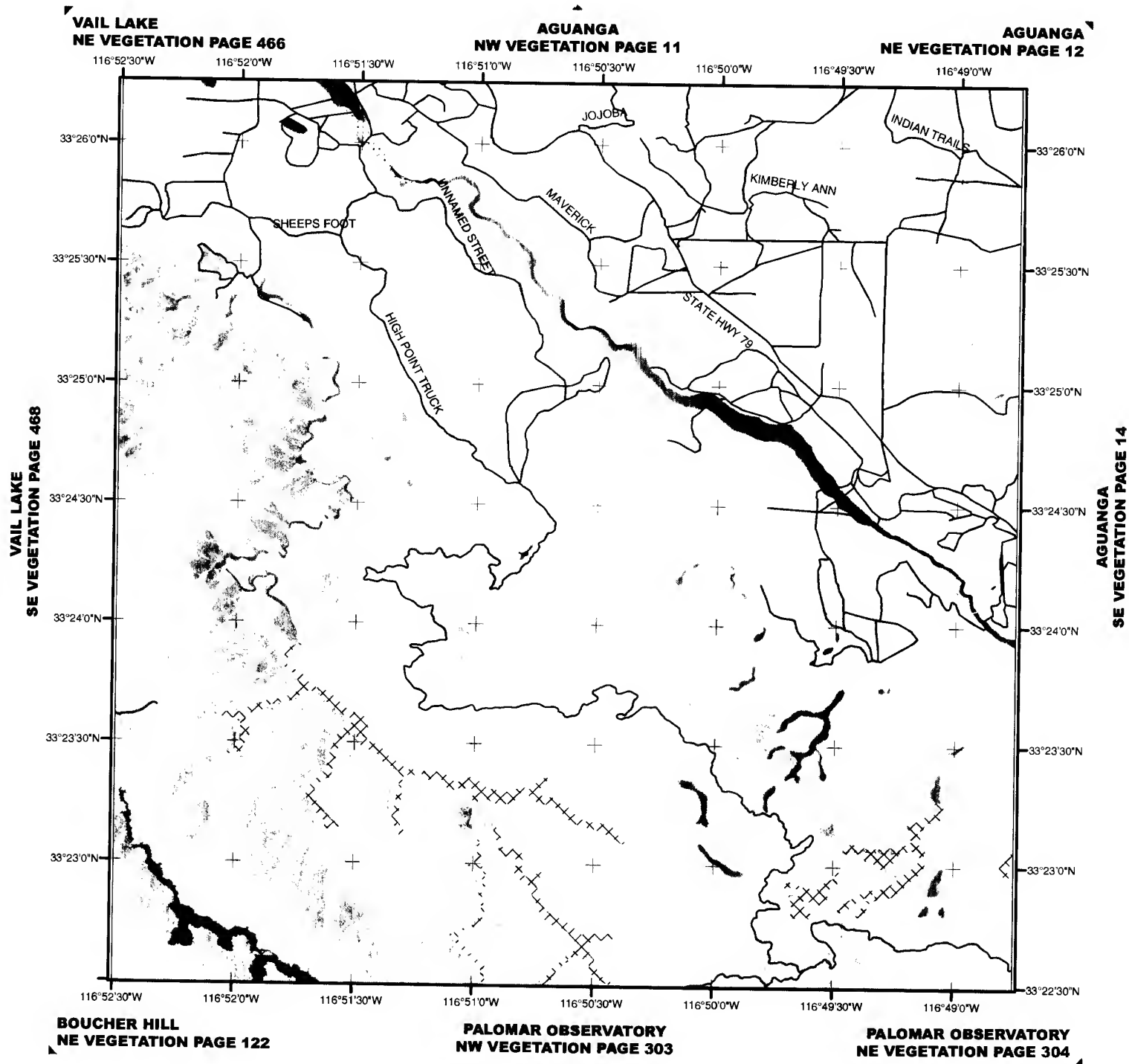


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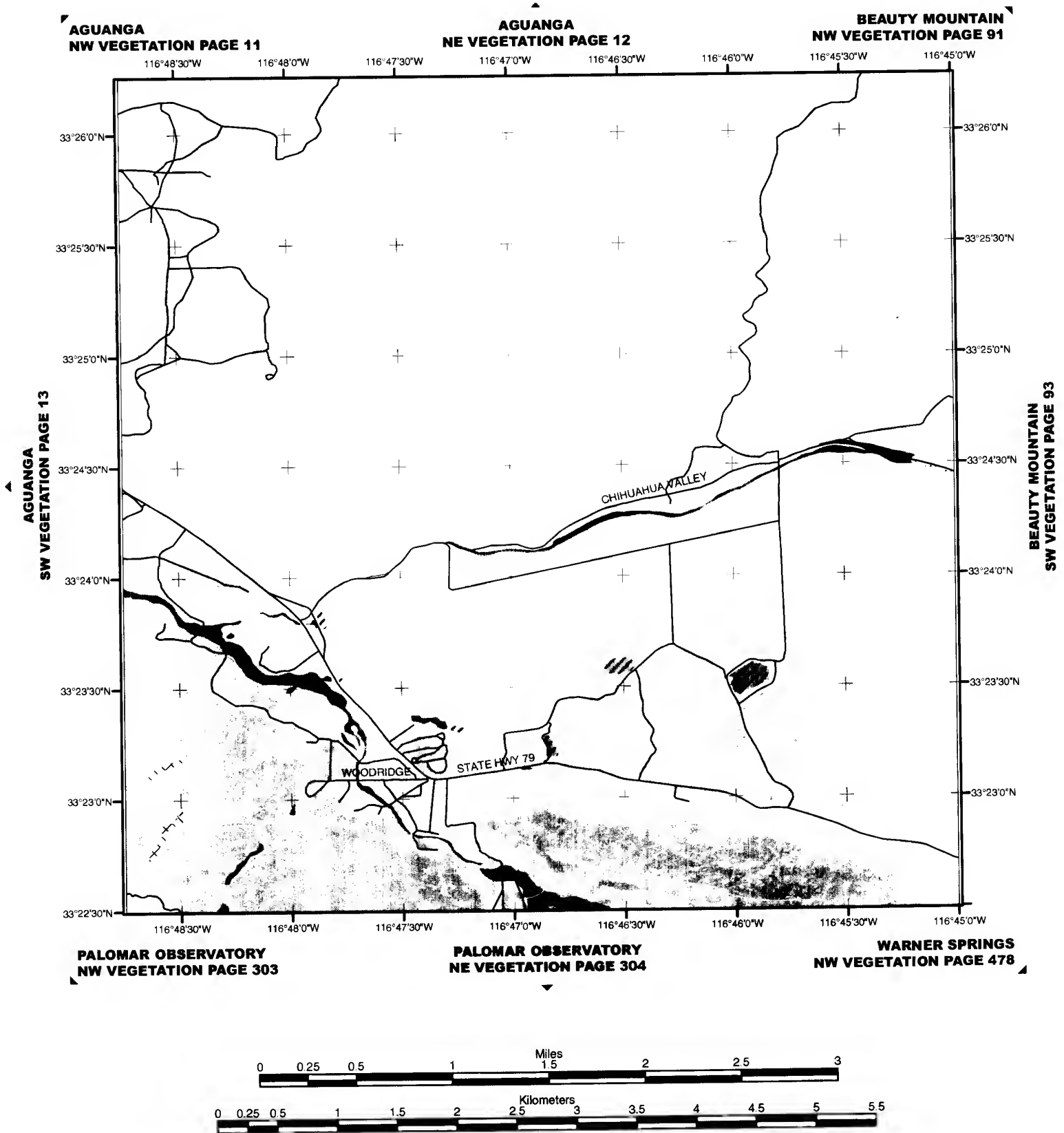
## Vegetation Species Association Units for Aquatic Resources



# Aguanga South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

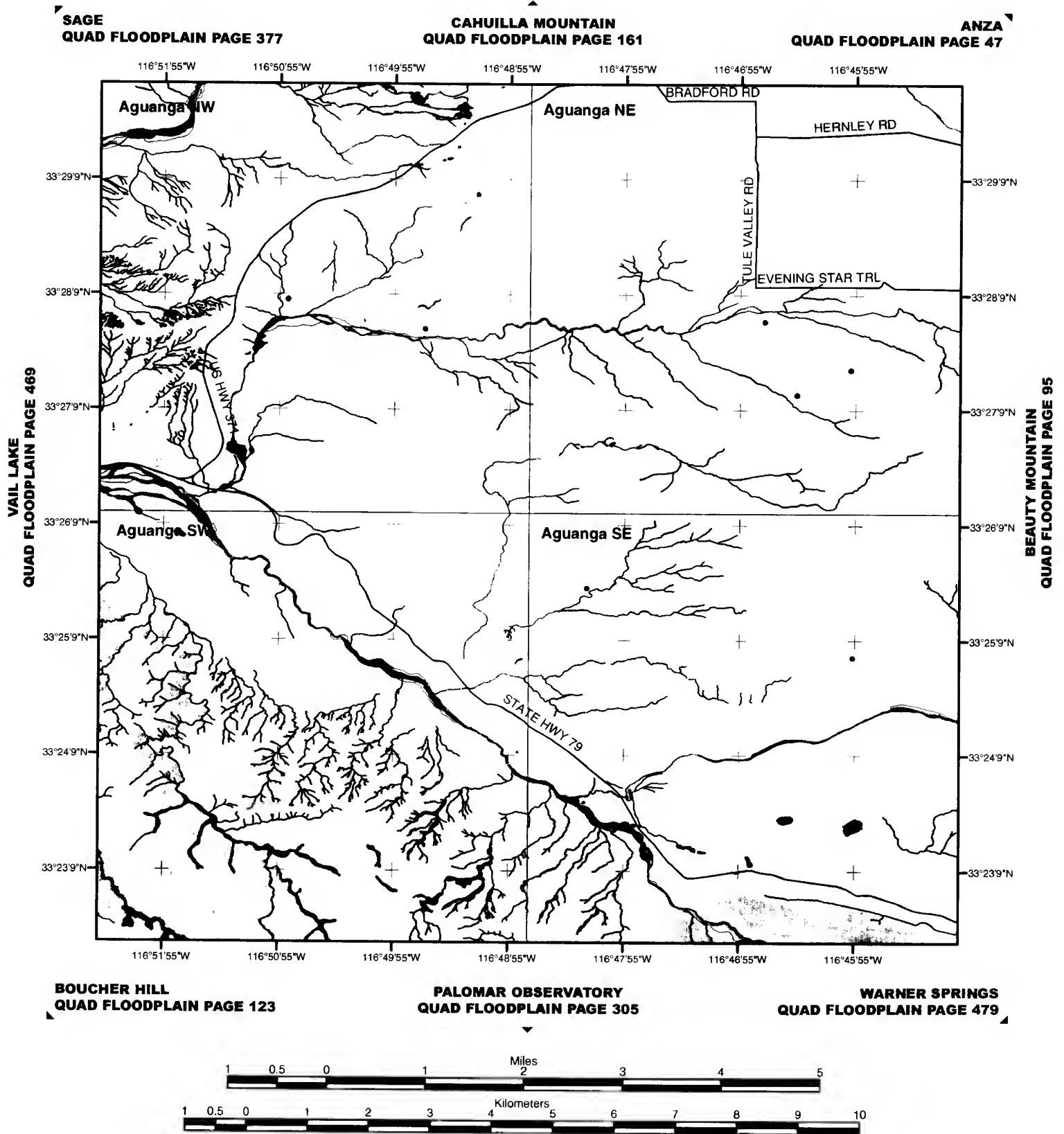


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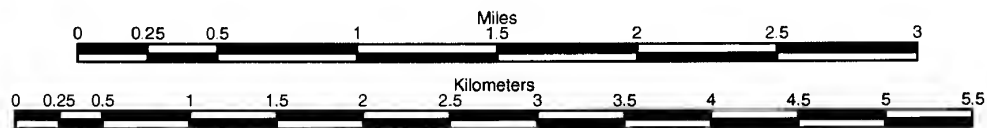
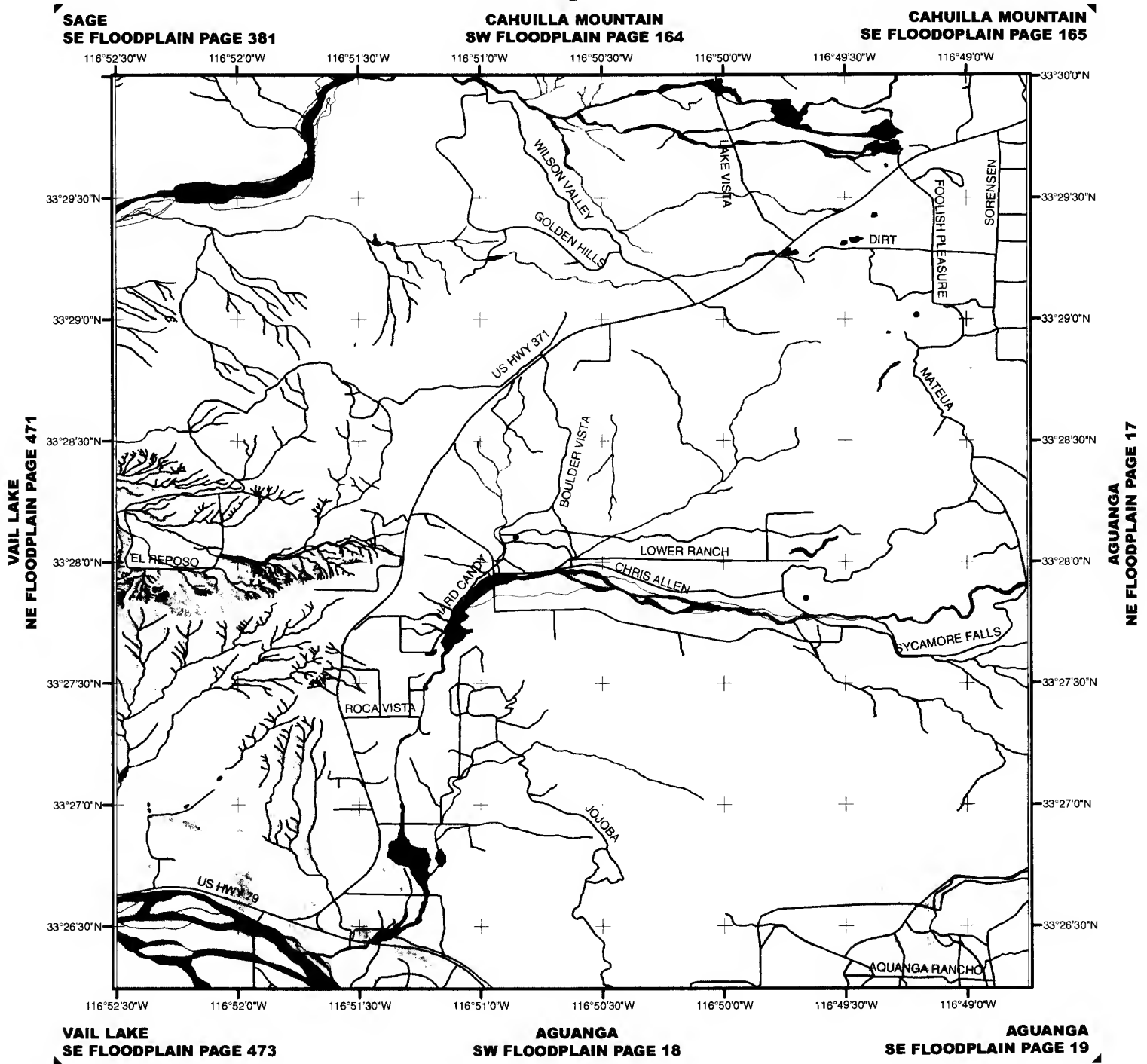
# Aguanga Quadrangle

## Hydrogeomorphic Floodplain Units for Aquatic Resources

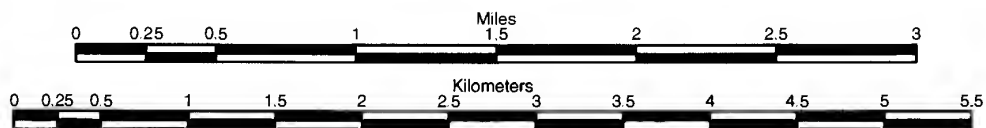
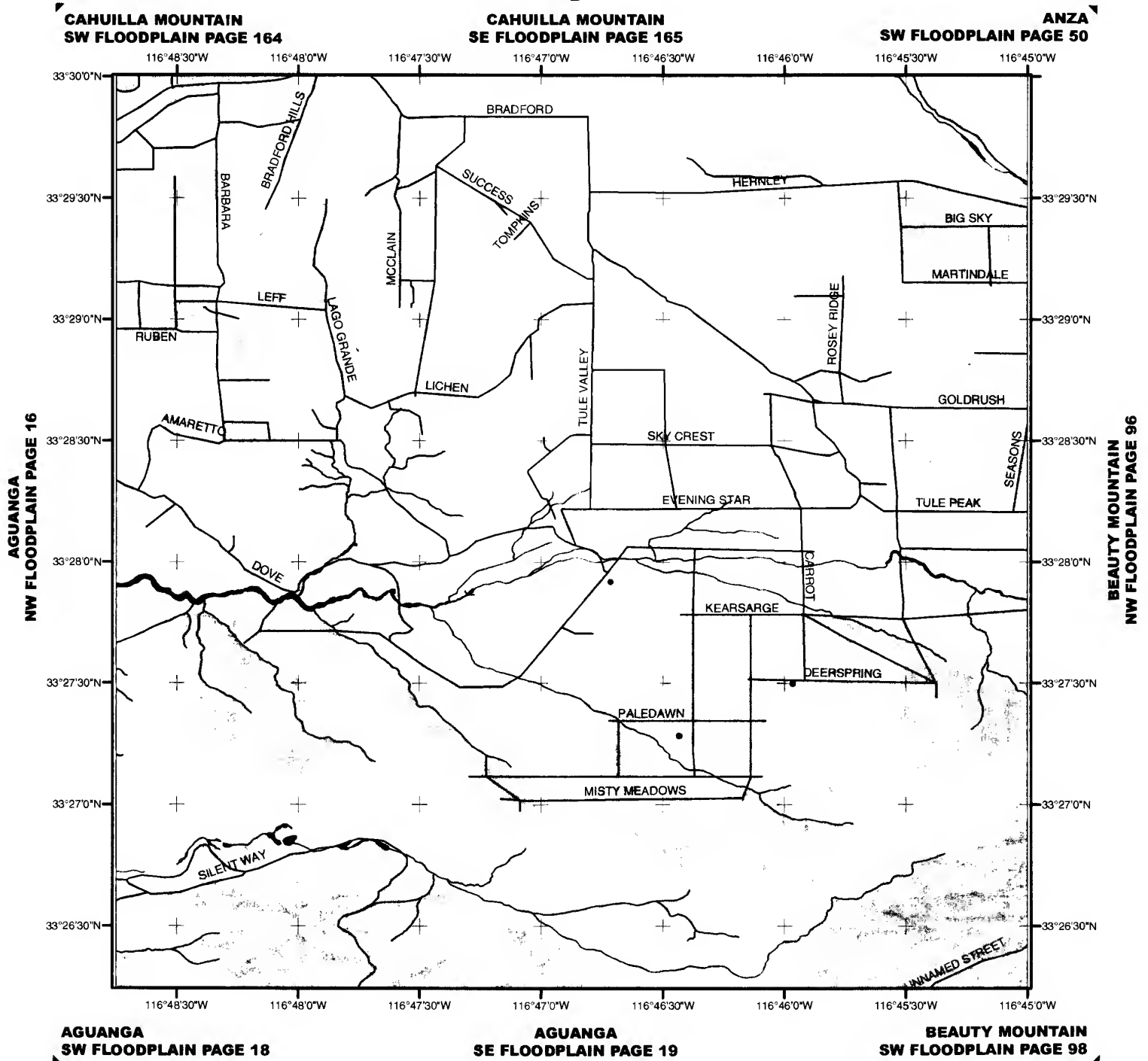


# Aguanga North West Quarter-Quadrangle

## Hydrogeomorphic Floodplain Units for Aquatic Resources

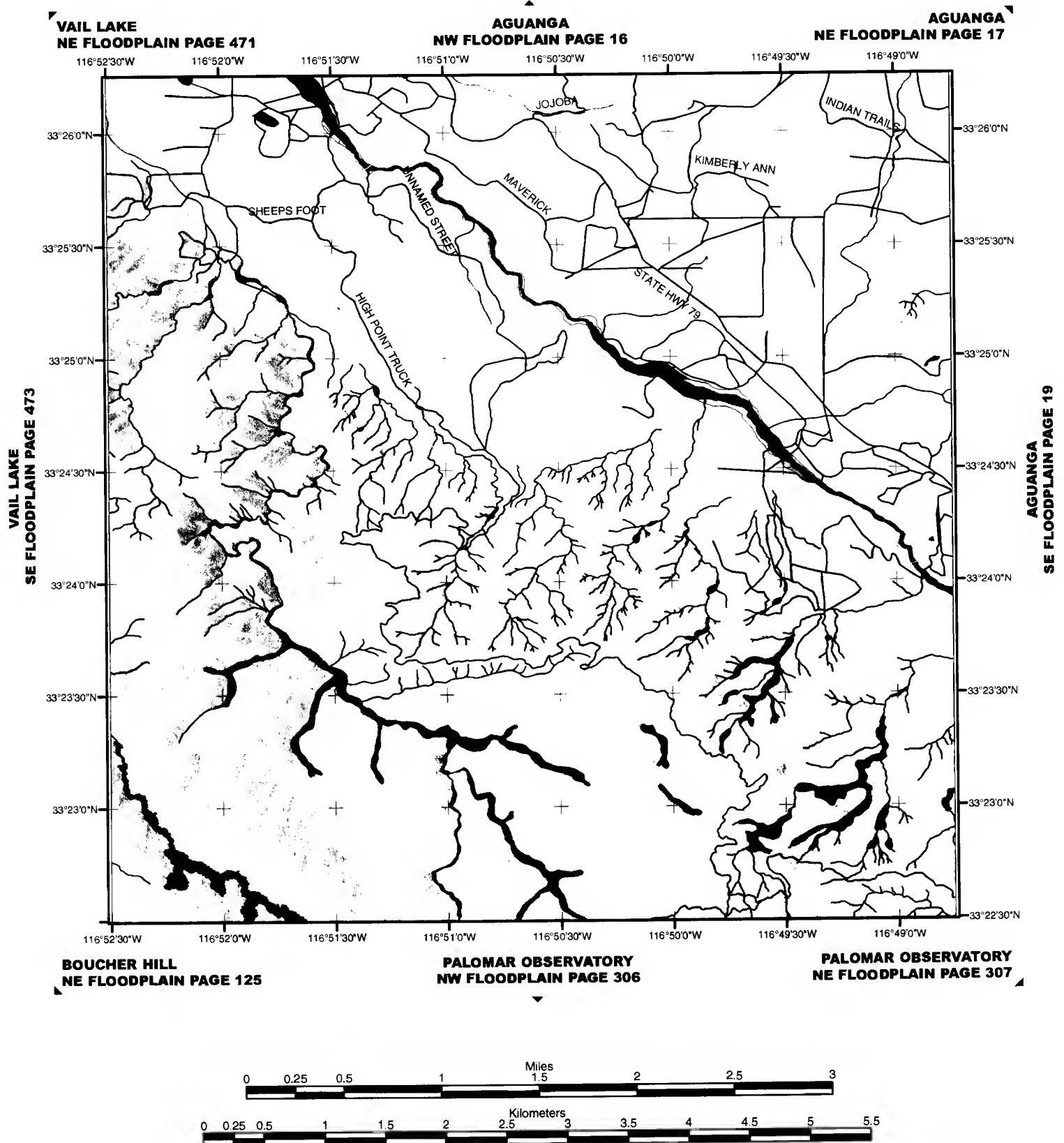


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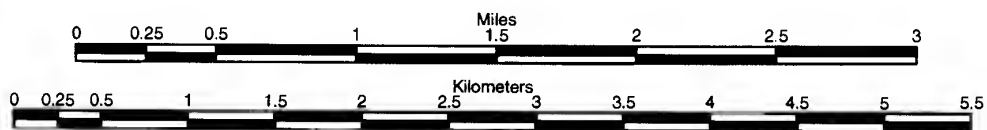
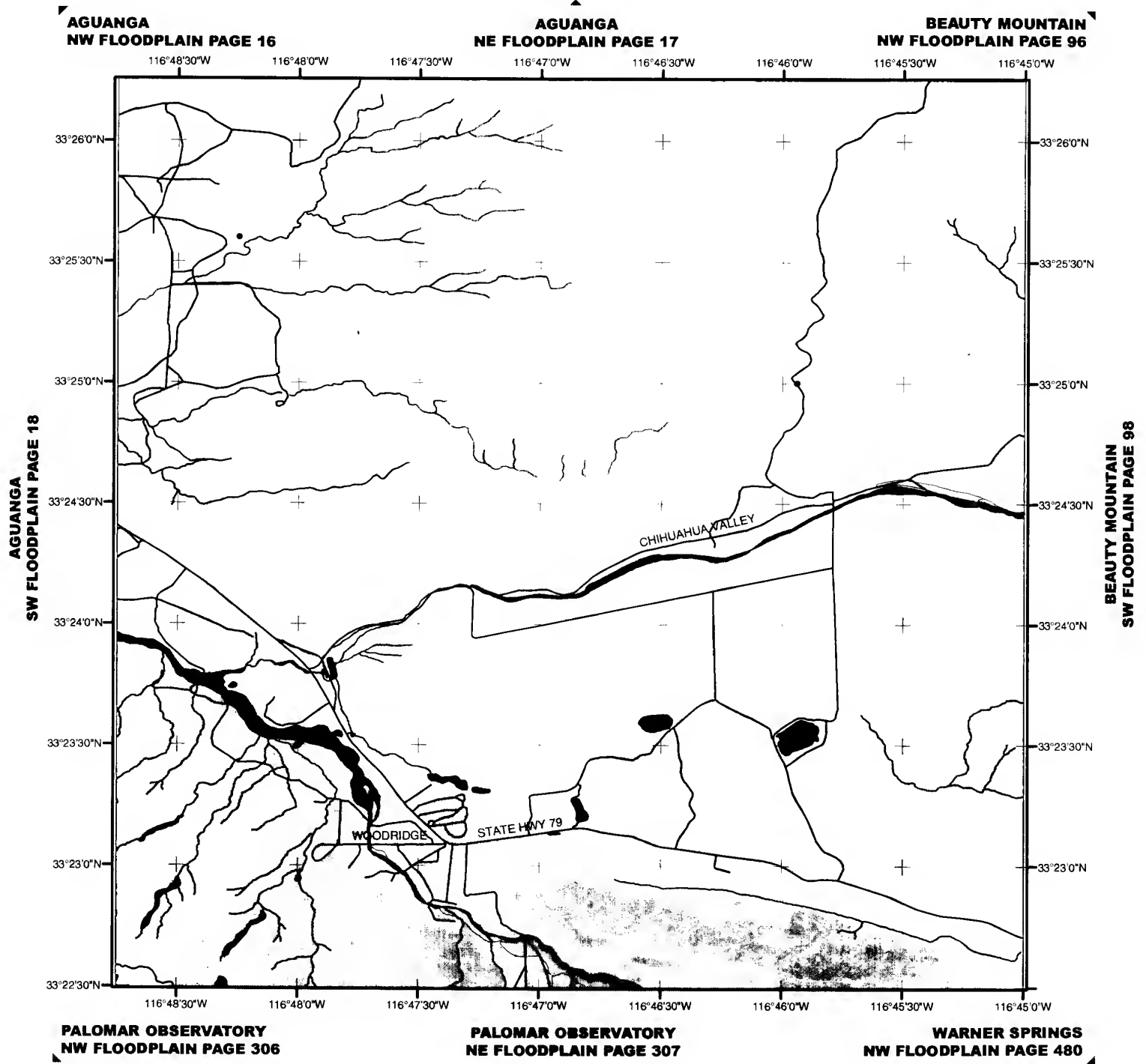


# Aguanga South West Quarter-Quadrangle

## Hydrogeomorphic Floodplain Units for Aquatic Resources



# Aguanga South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



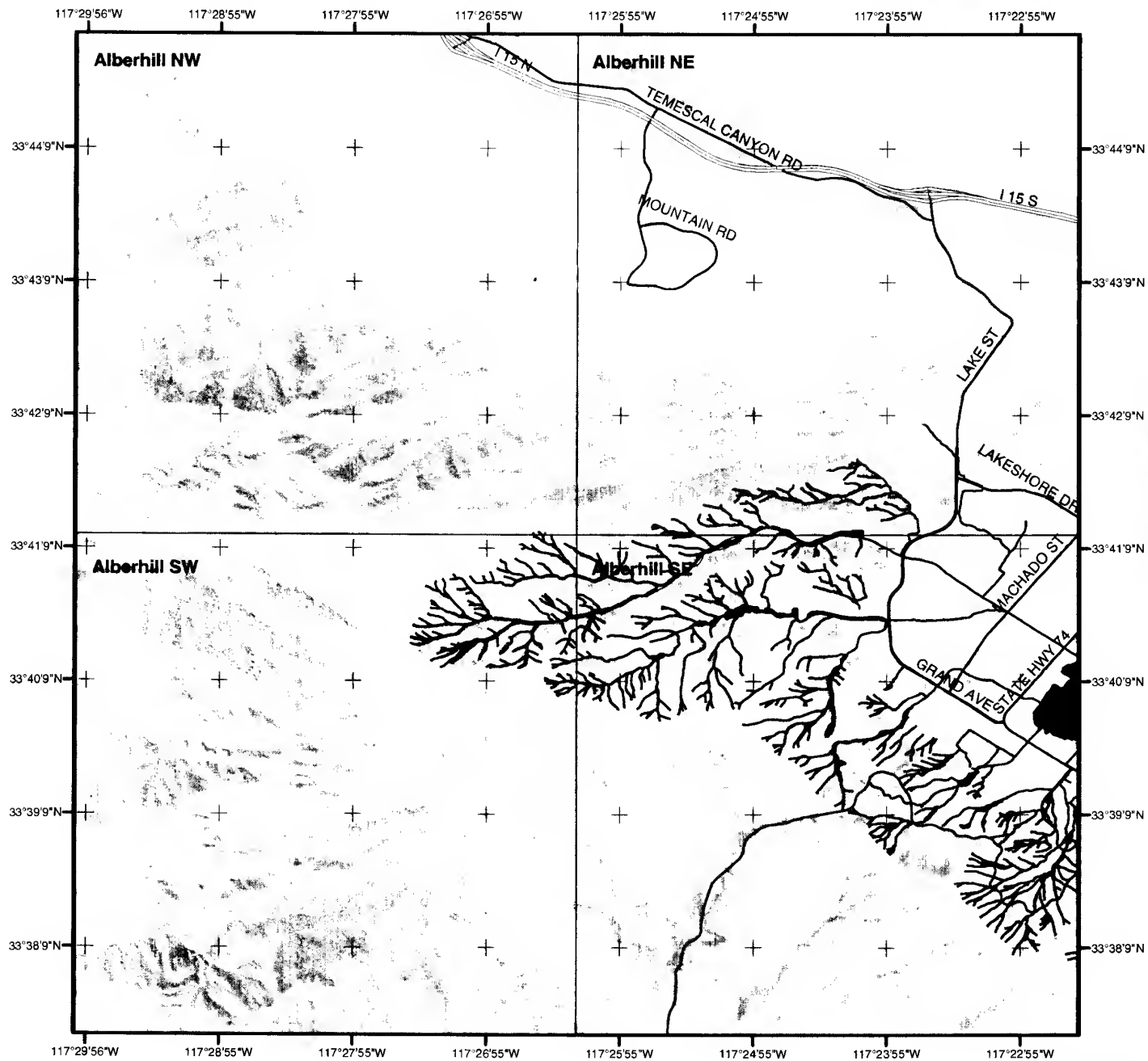




# Alberhill Quadrangle

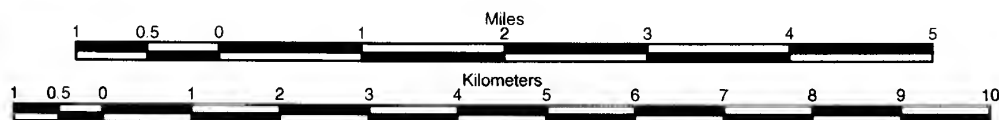
## Regulatory Probability Ratings for Aquatic Resources

**STEELE PEAK**  
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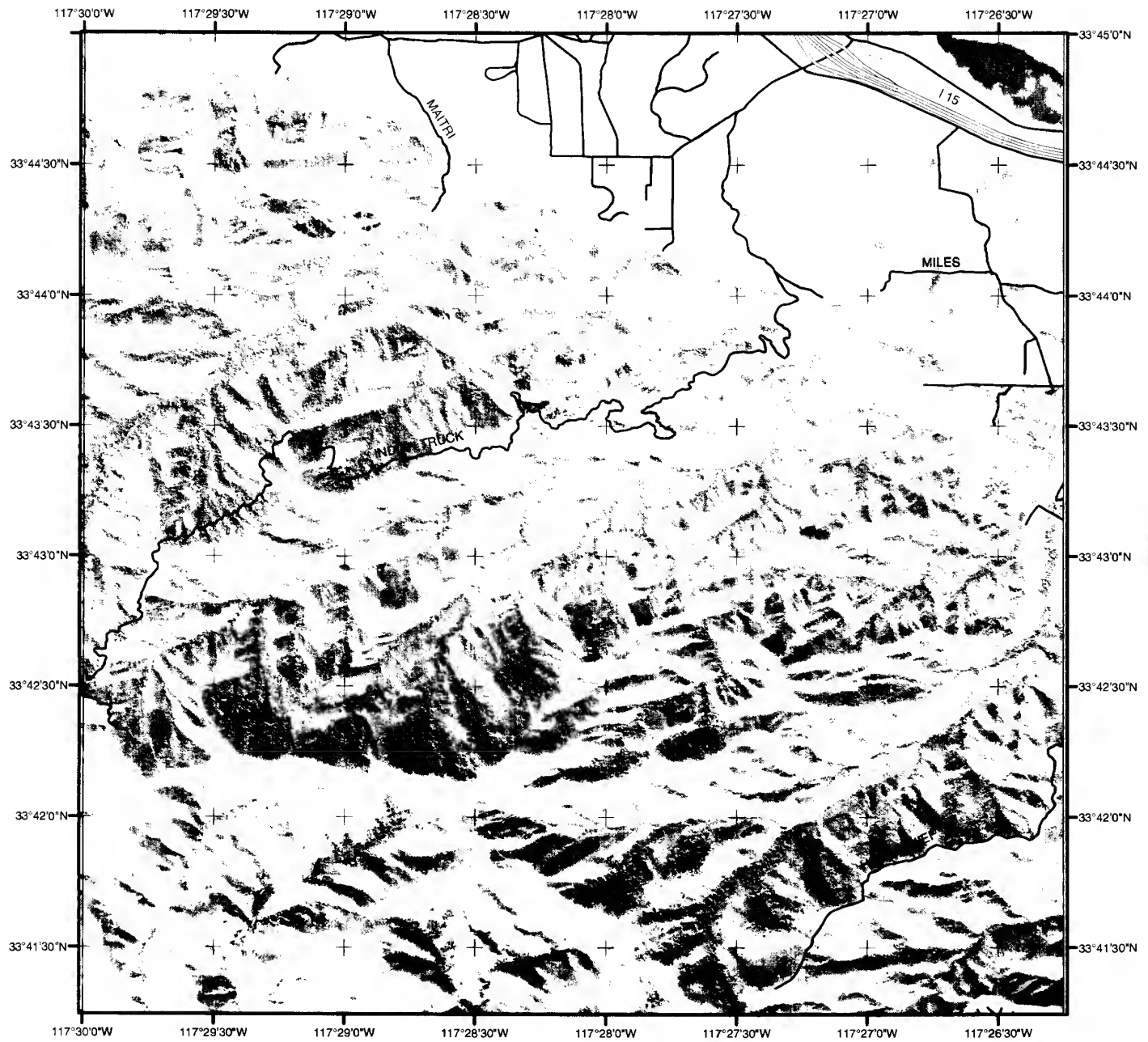


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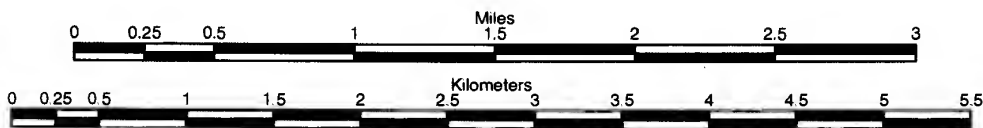
# **Alberhill North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources**



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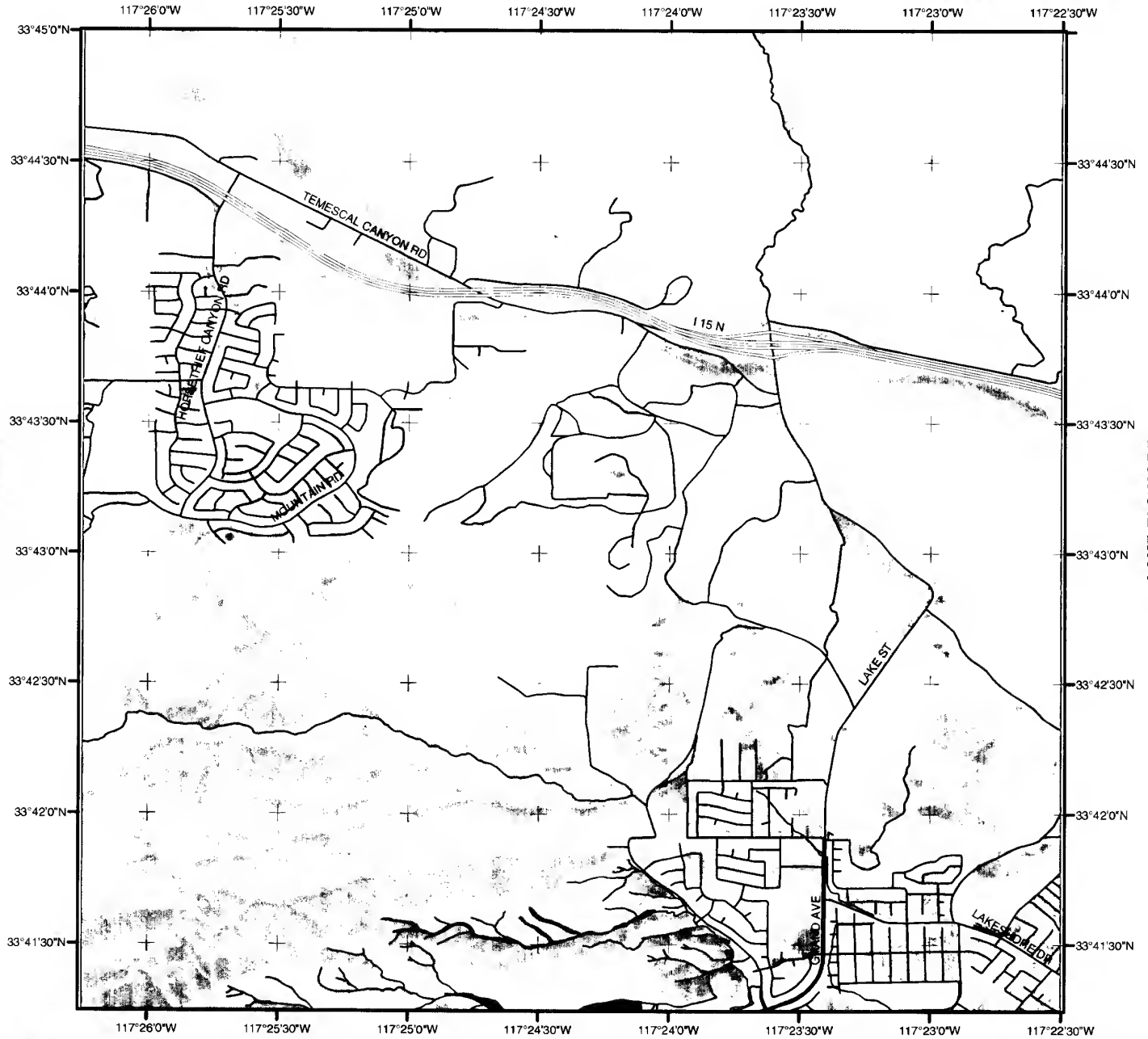


# Alberhill North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

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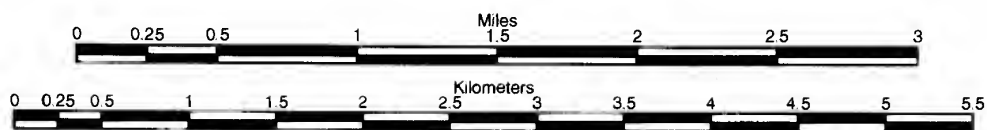
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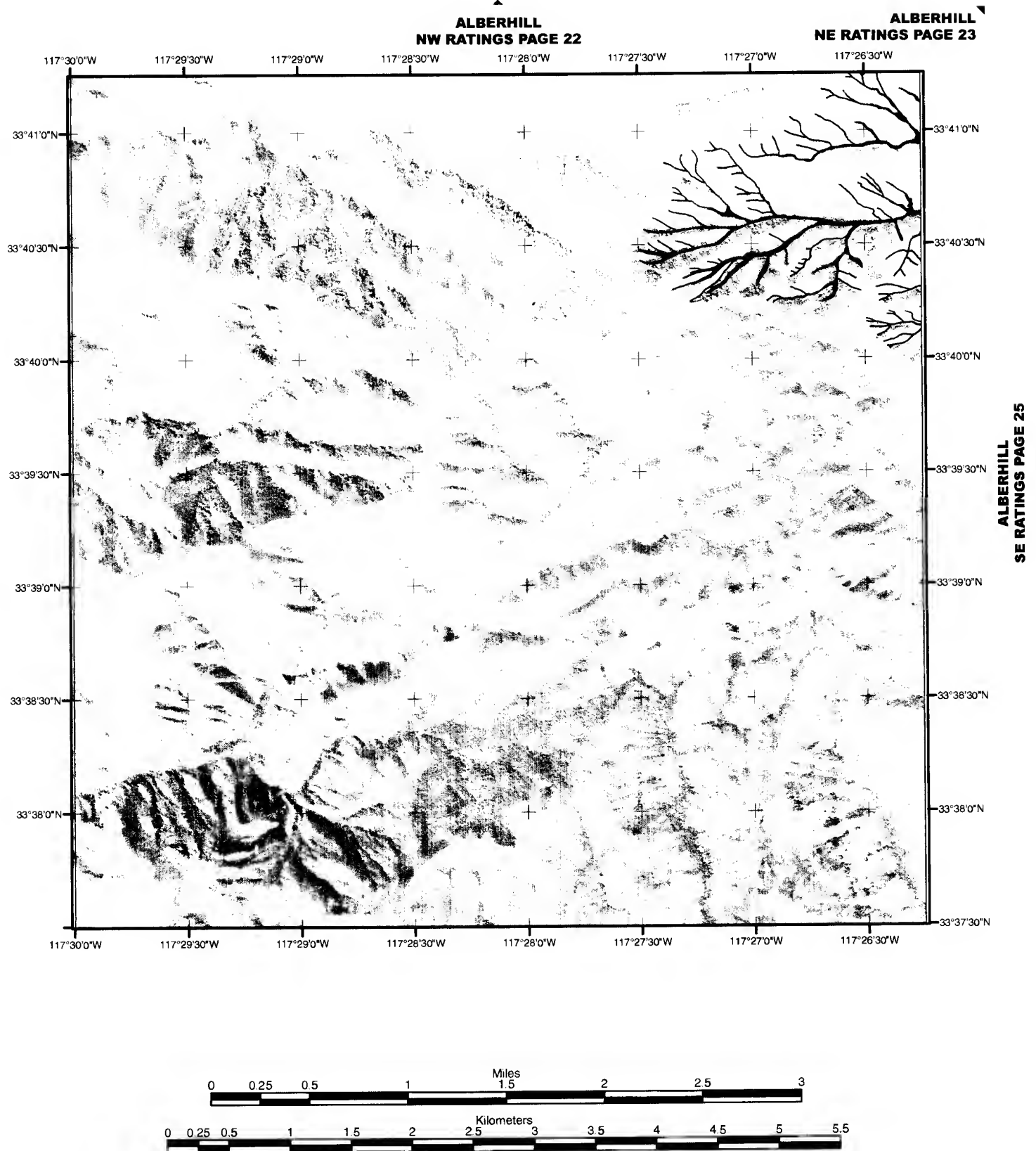
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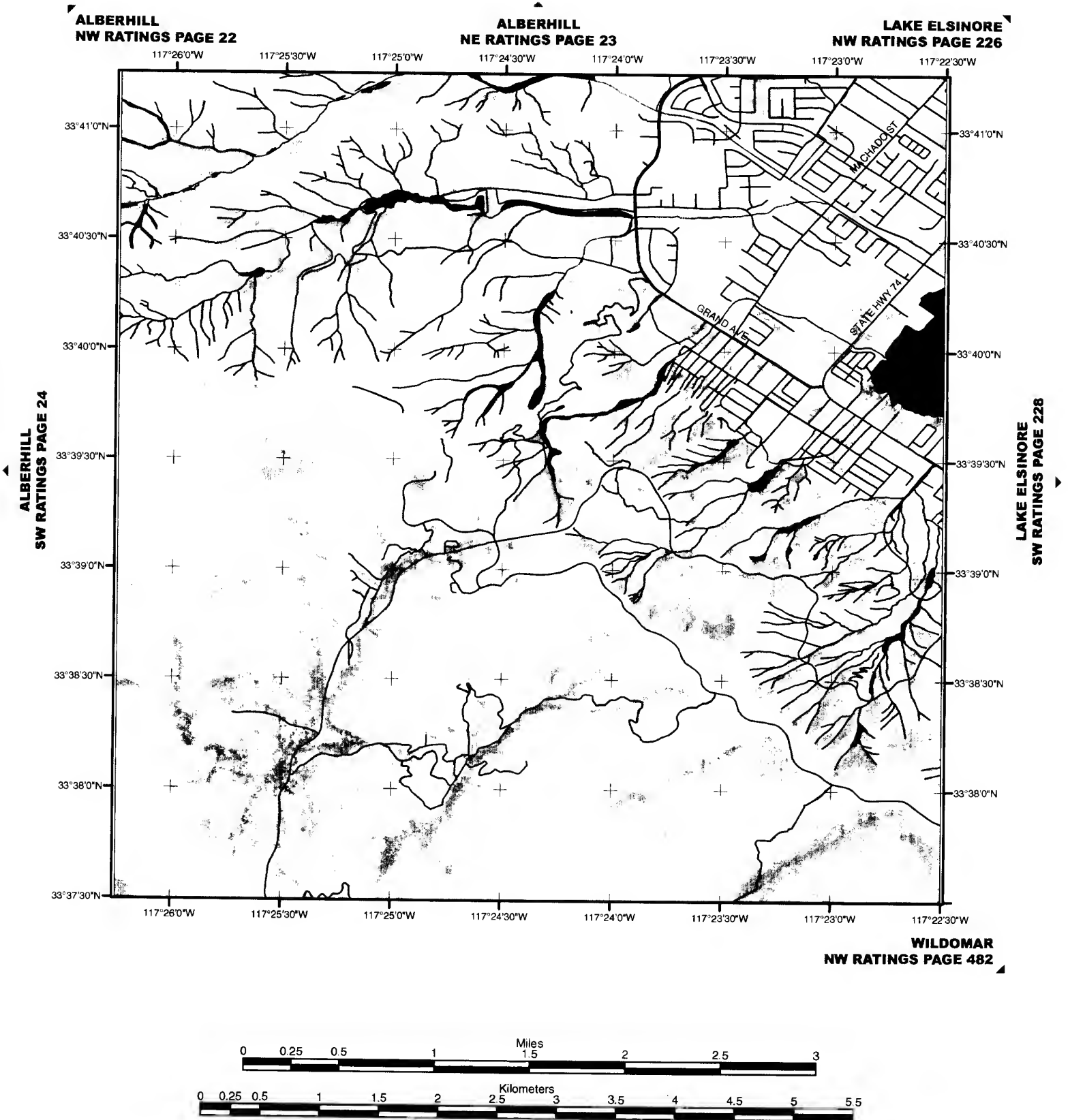
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# Alberhill South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



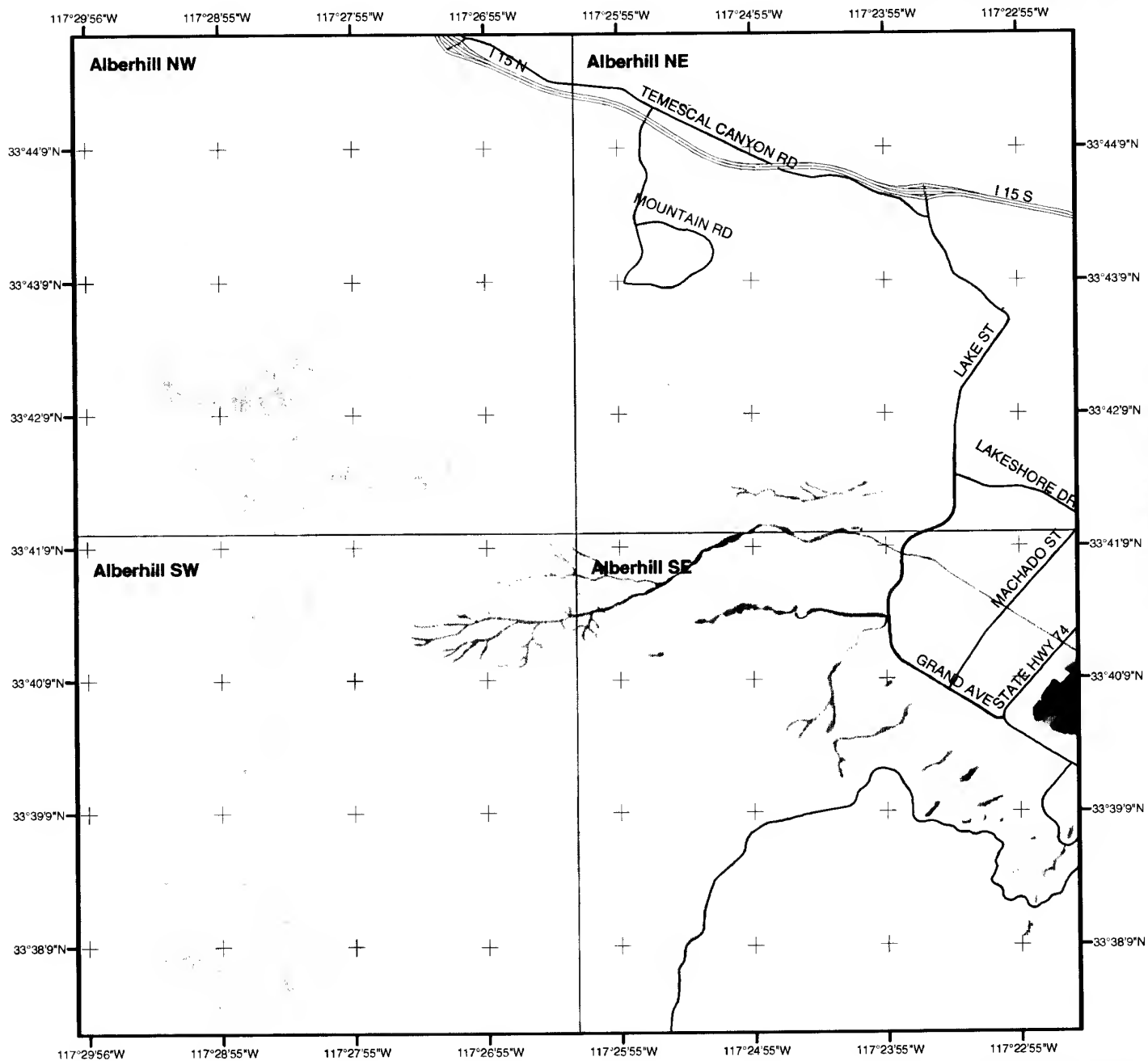
# Alberhill South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



# Alberhill Quadrangle

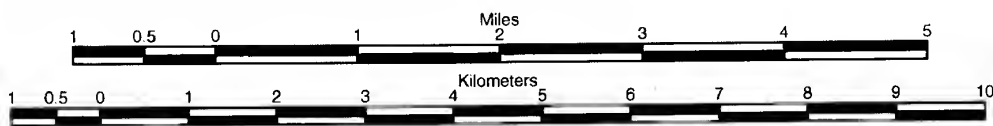
## Vegetation Species Association Units for Aquatic Resources

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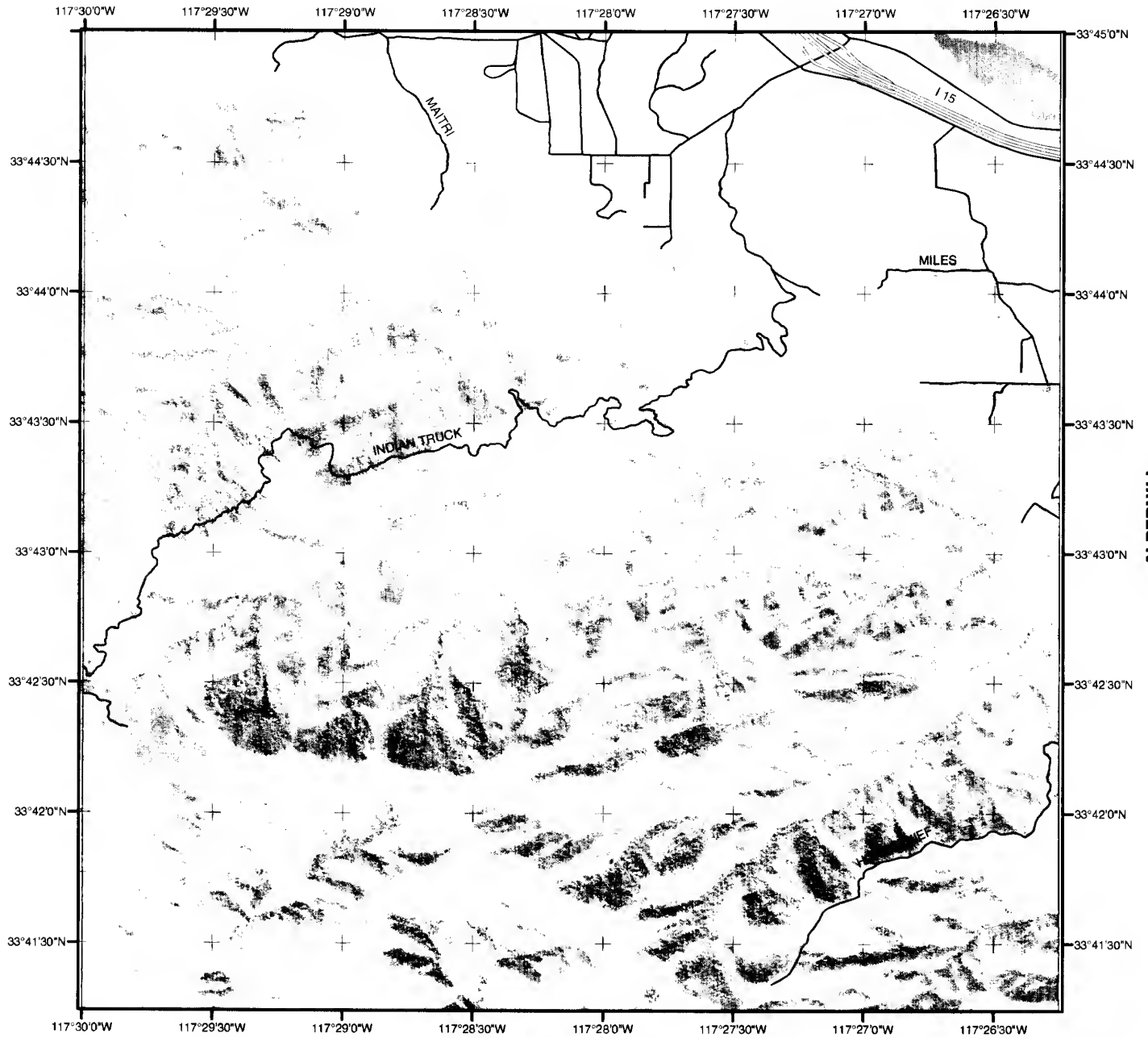


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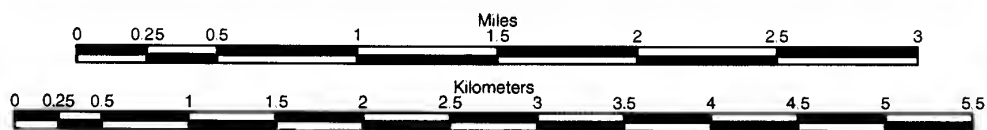
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NE VEGETATION PAGE 28

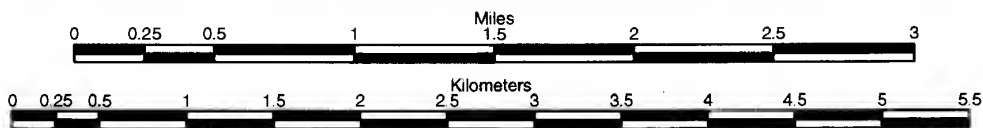
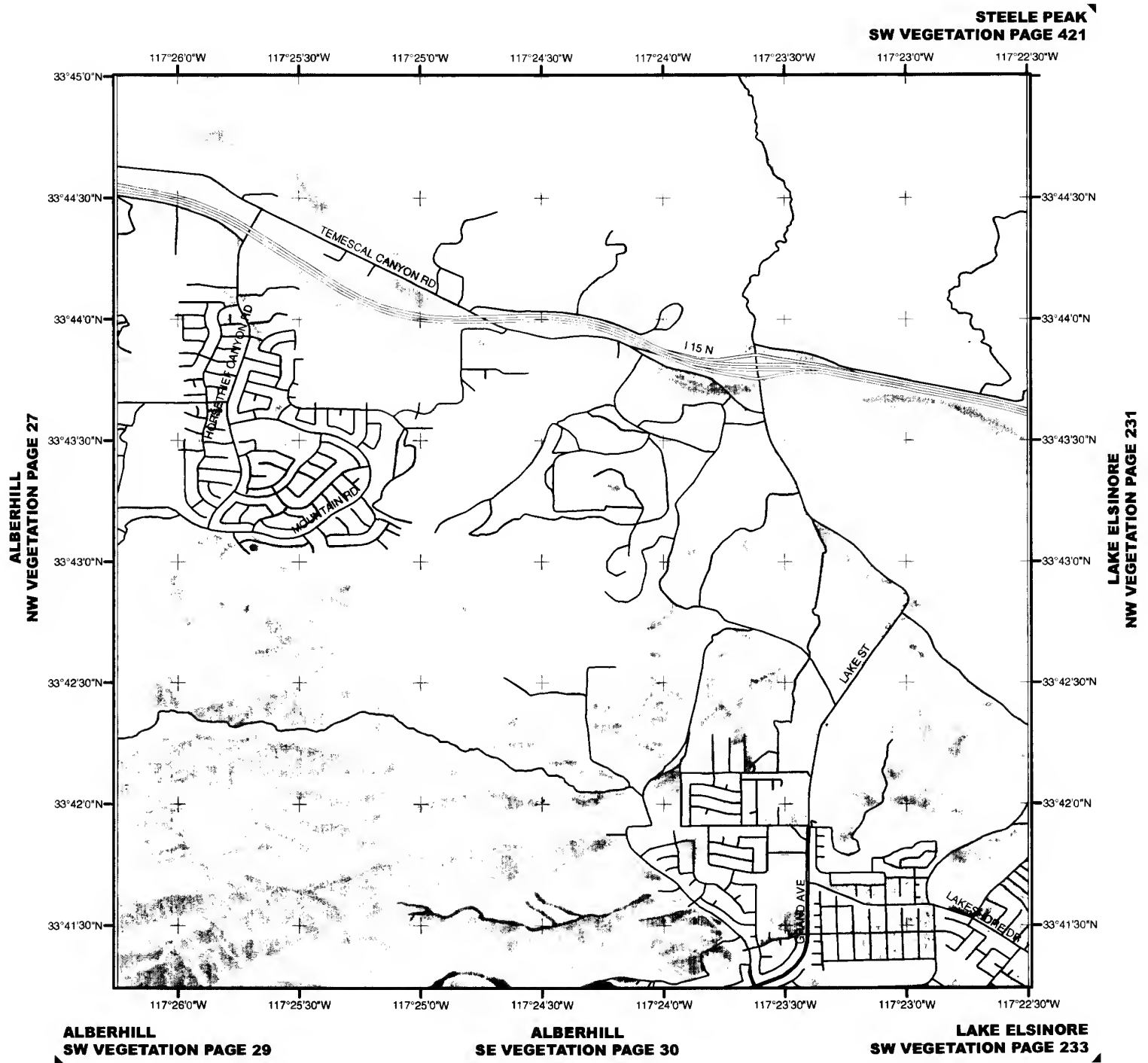
ALBERHILL  
SW VEGETATION PAGE 29

ALBERHILL  
SE VEGETATION PAGE 30

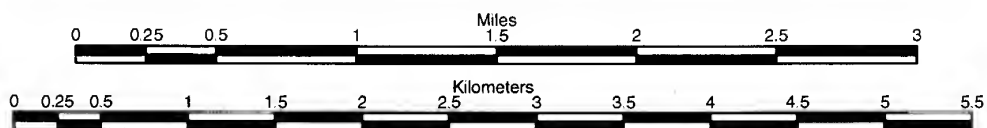
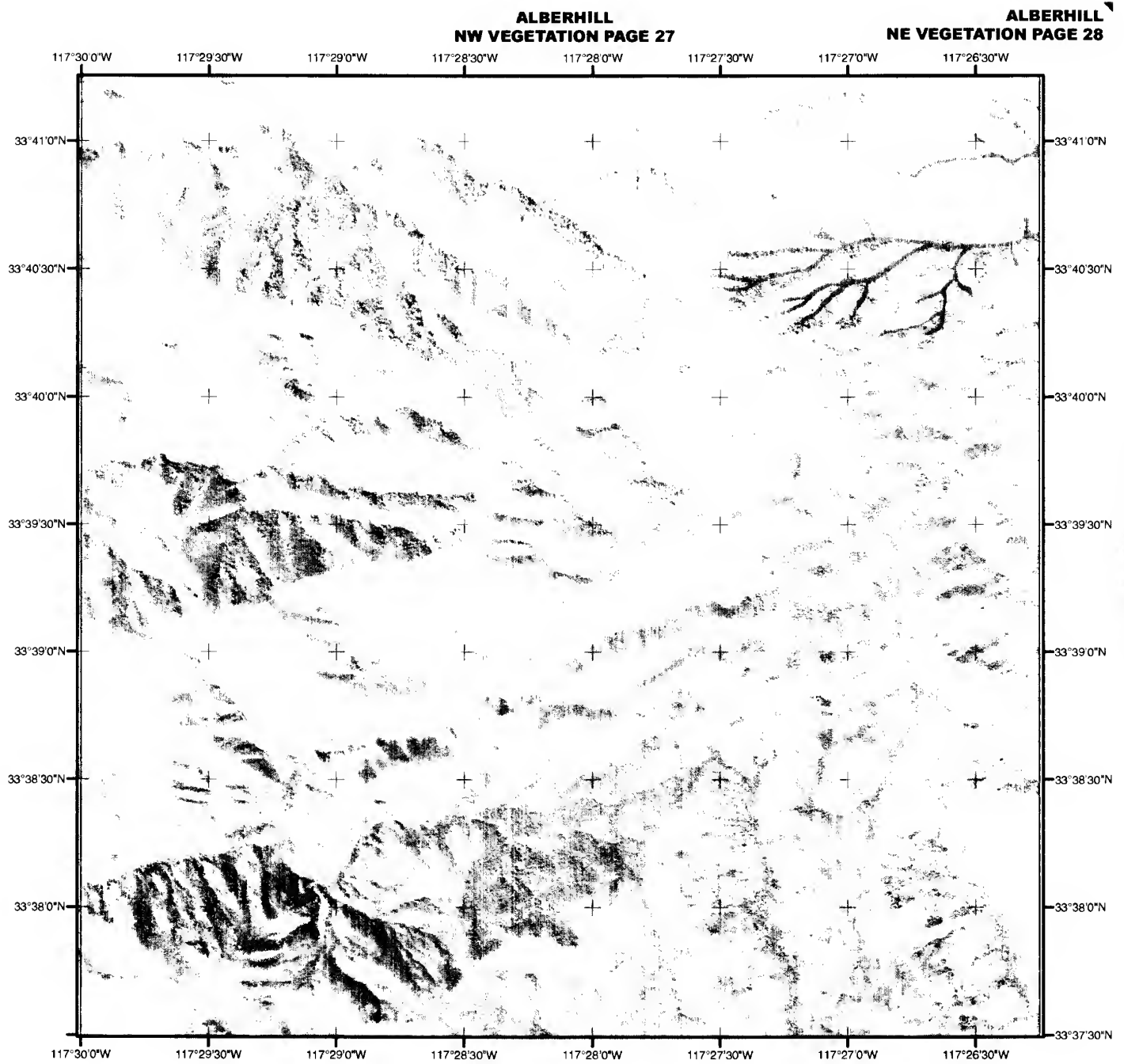




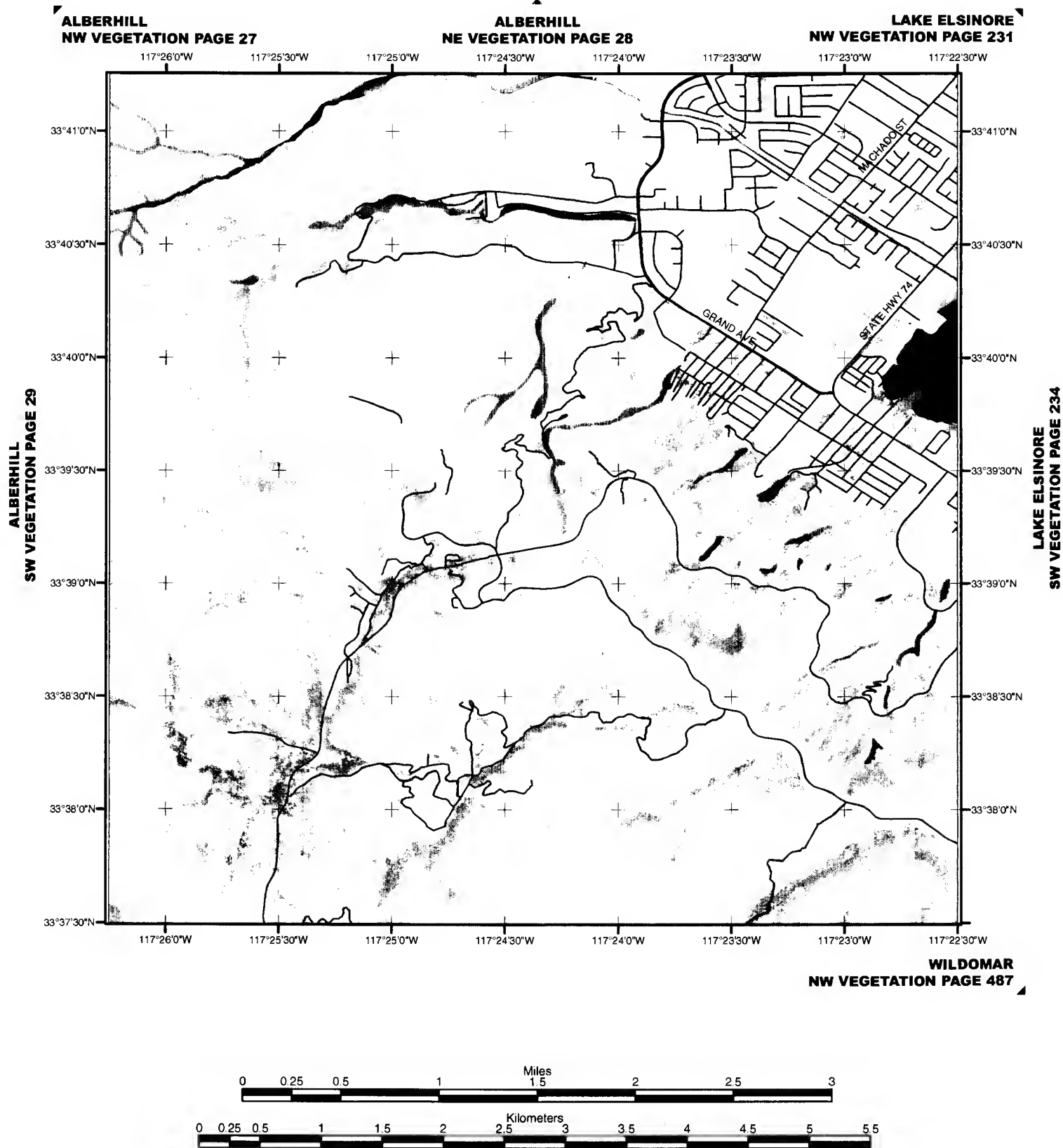
# Alberhill North East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



# Alberhill South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



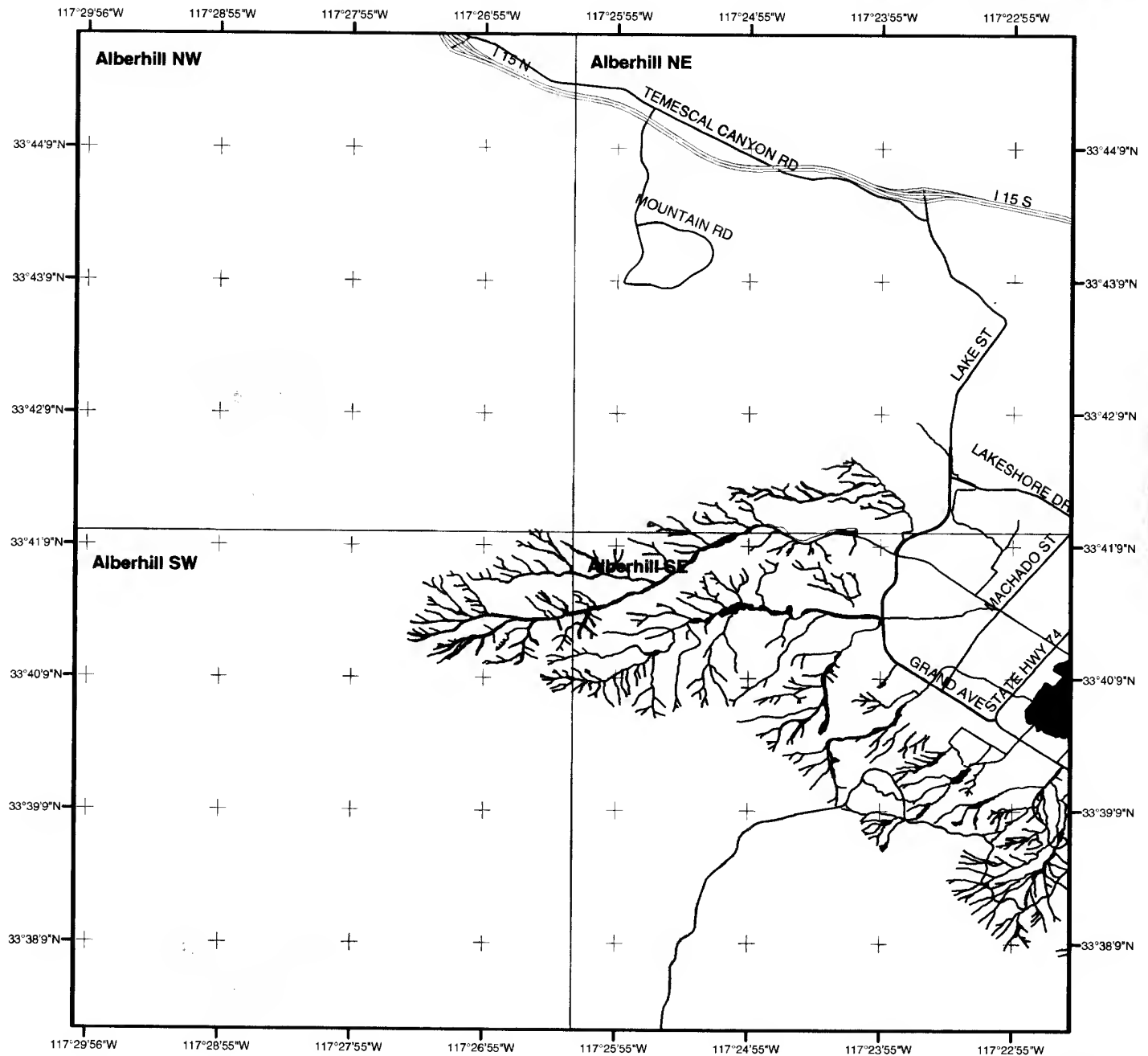
# Alberhill South East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



# Alberhill Quadrangle

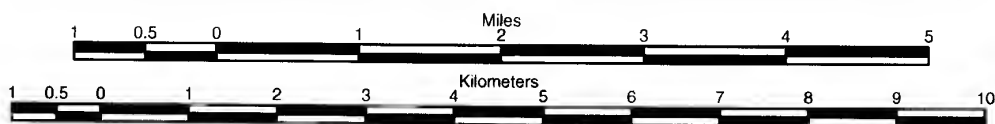
## Hydrogeomorphic Floodplain Units for Aquatic Resources

STEELE PEAK  
QUAD FLOODPLAIN PAGE 423

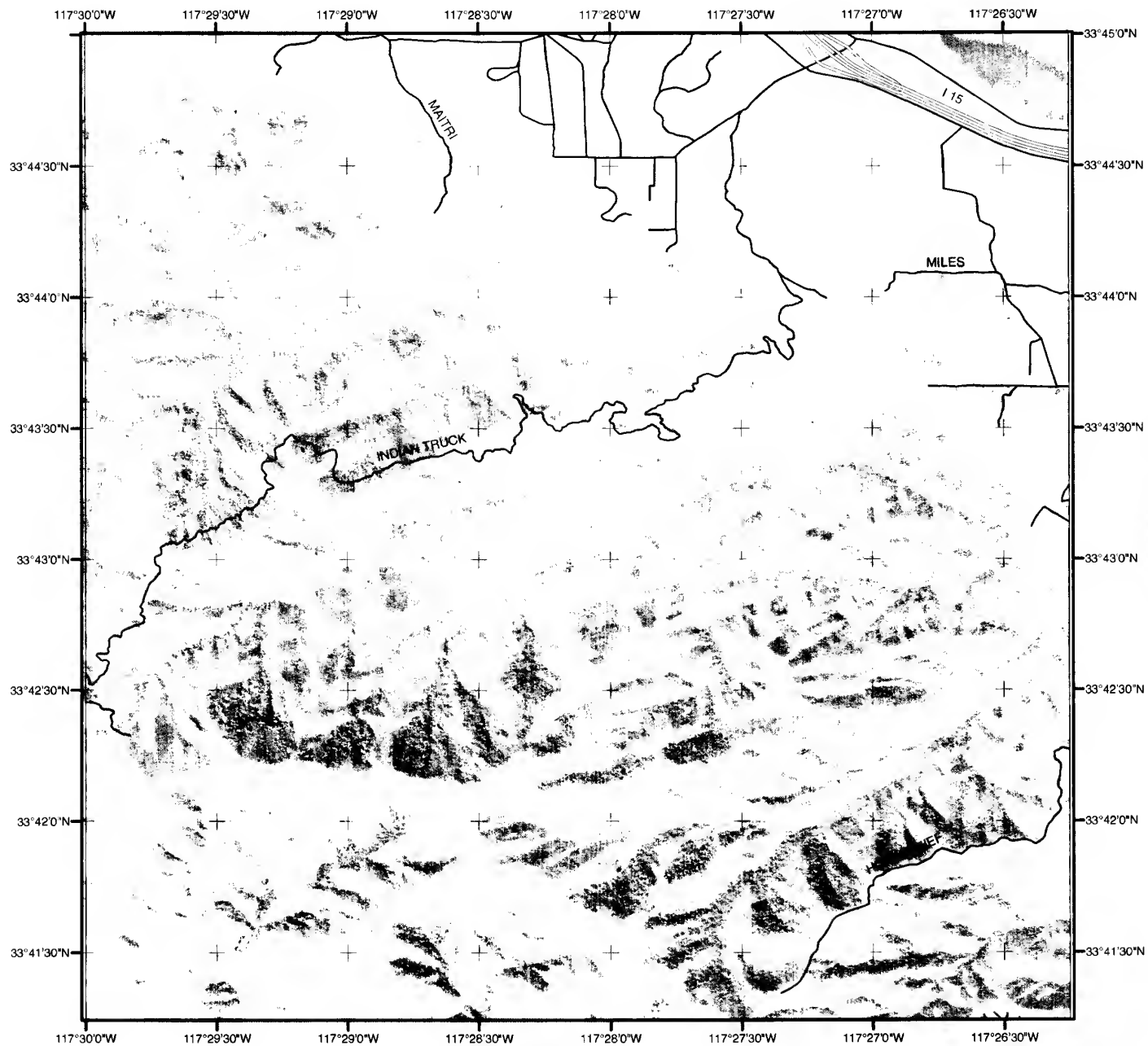


LAKE ELSINORE  
QUAD FLOODPLAIN PAGE 235

WILDOMAR  
QUAD FLOODPLAIN PAGE 491



# Alberhill North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

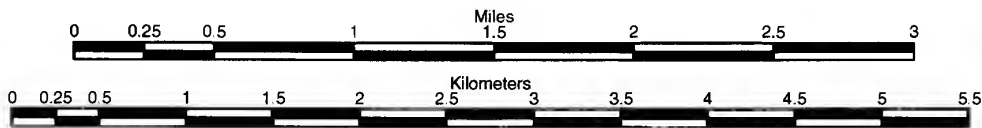
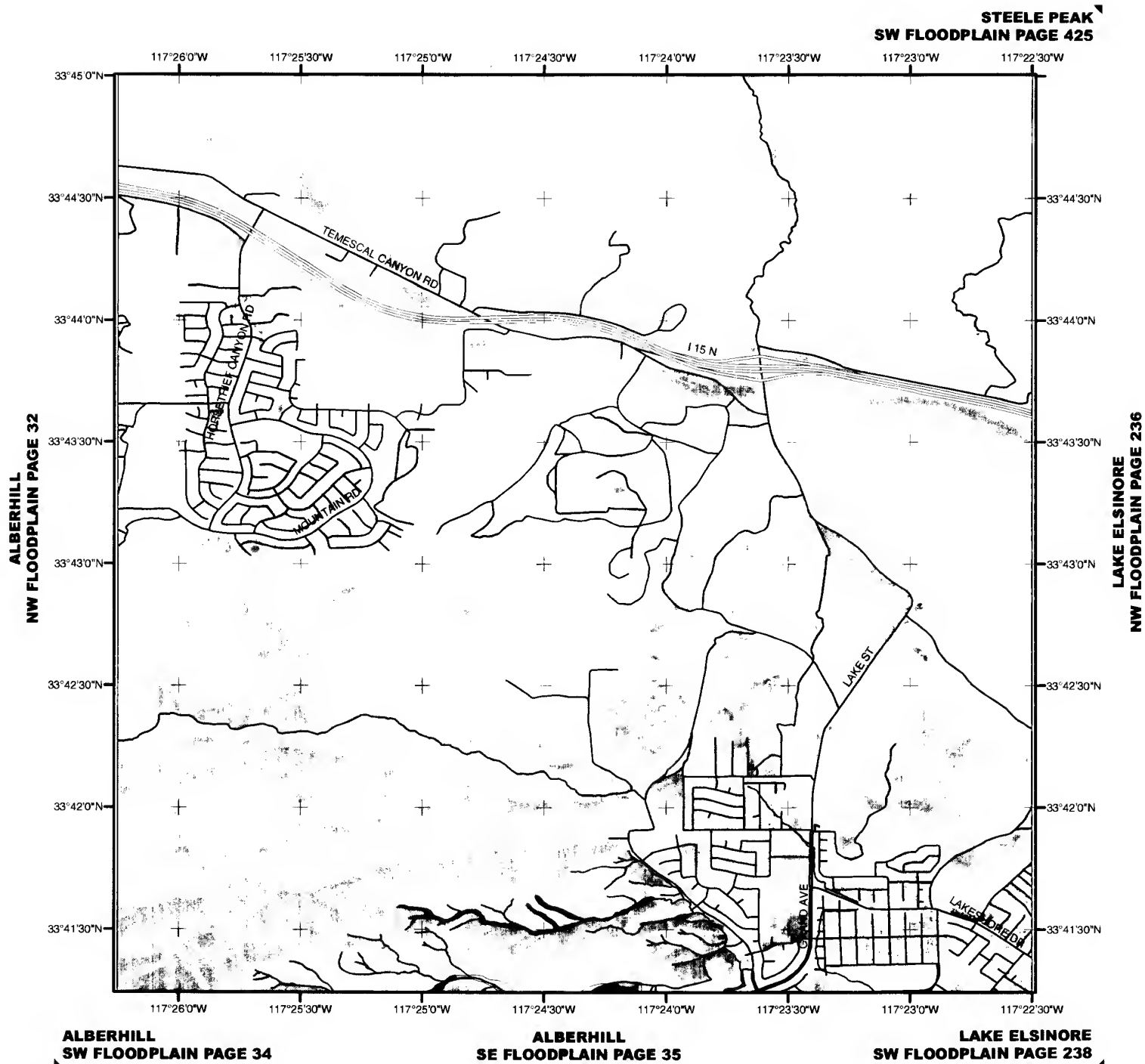


ALBERHILL  
NE FLOODPLAIN PAGE 33

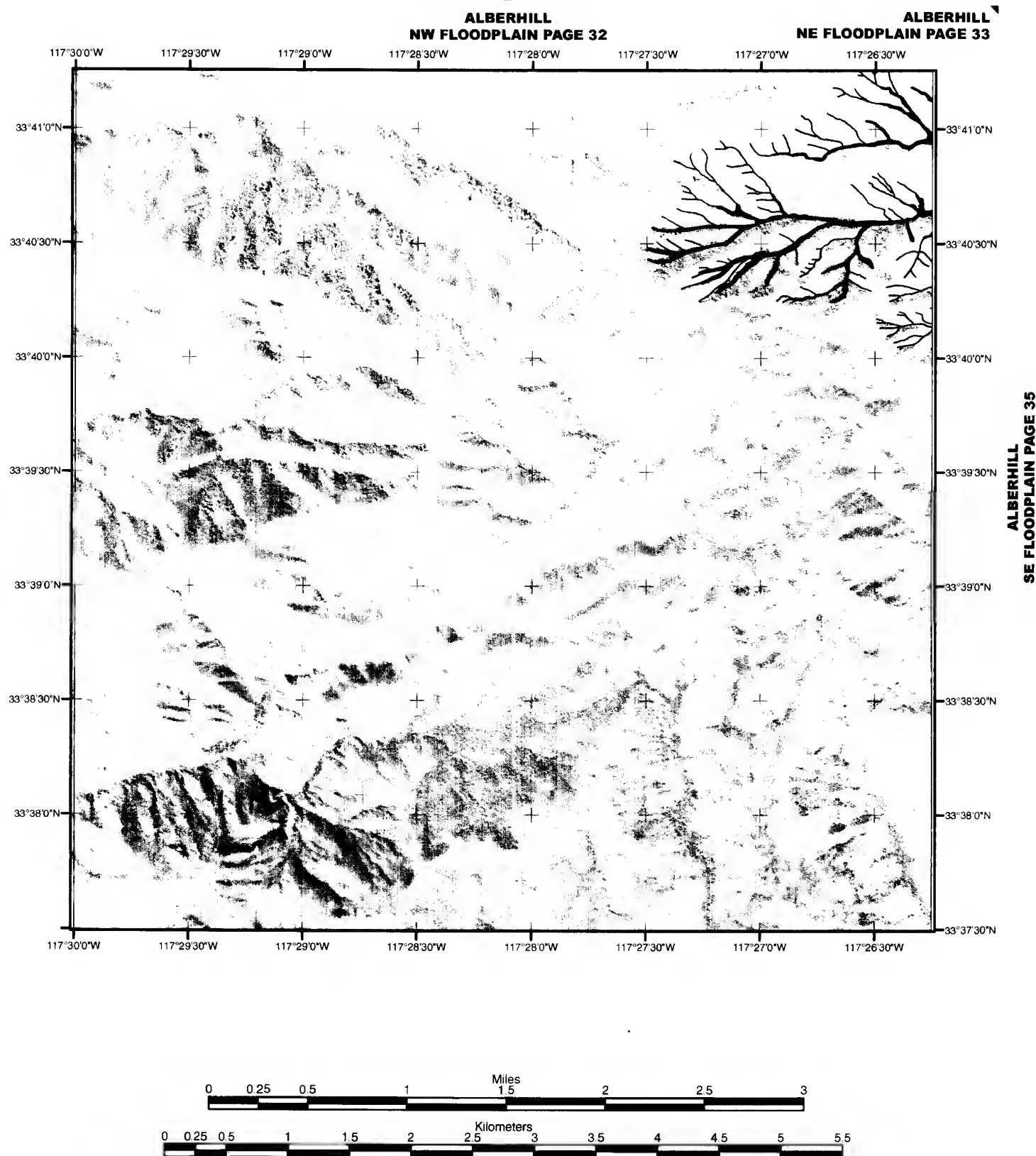
ALBERHILL  
SW FLOODPLAIN PAGE 34

ALBERHILL  
SE FLOODPLAIN PAGE 35

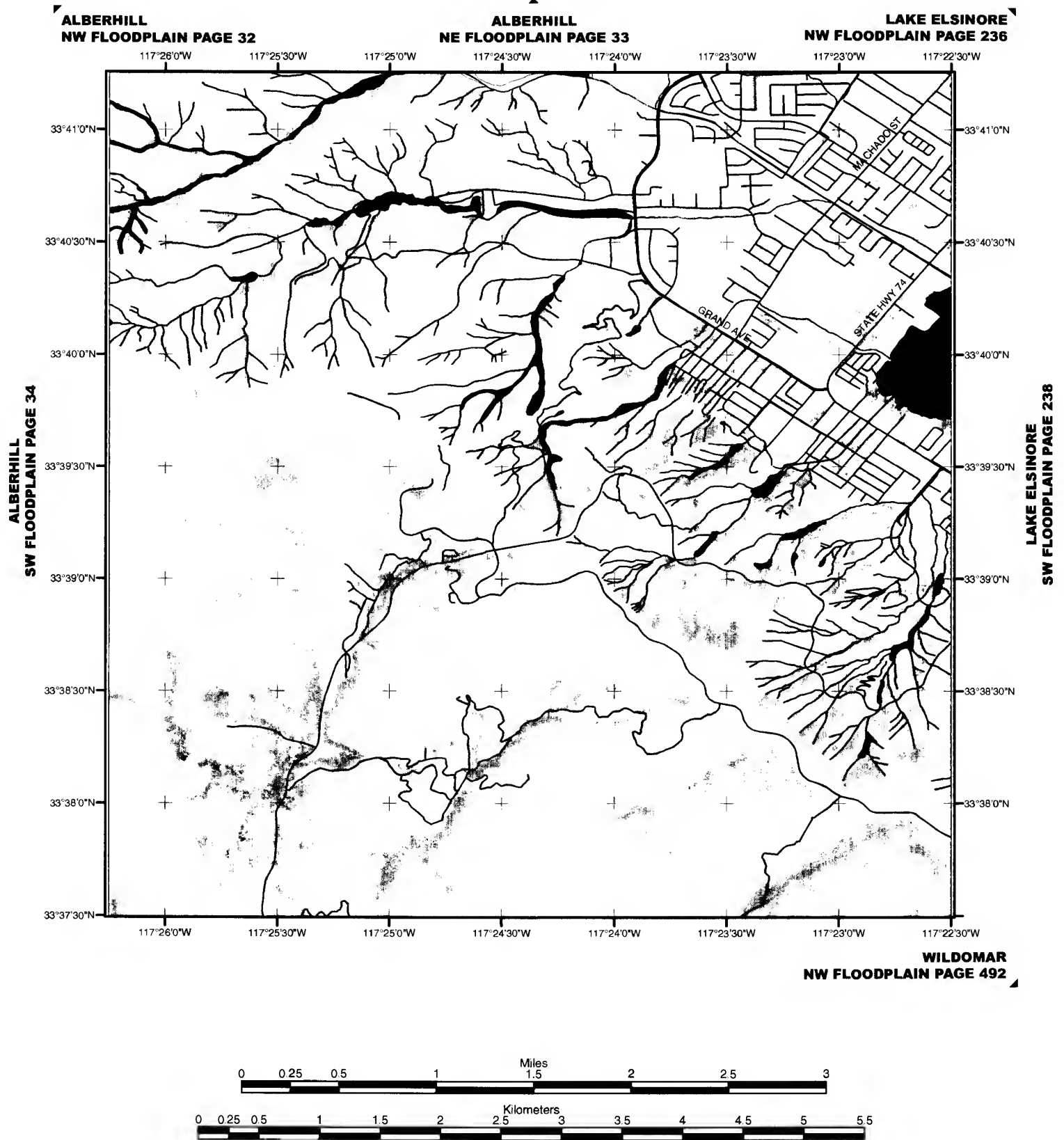
# Alberhill North East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



# Alberhill South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



# Alberhill South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

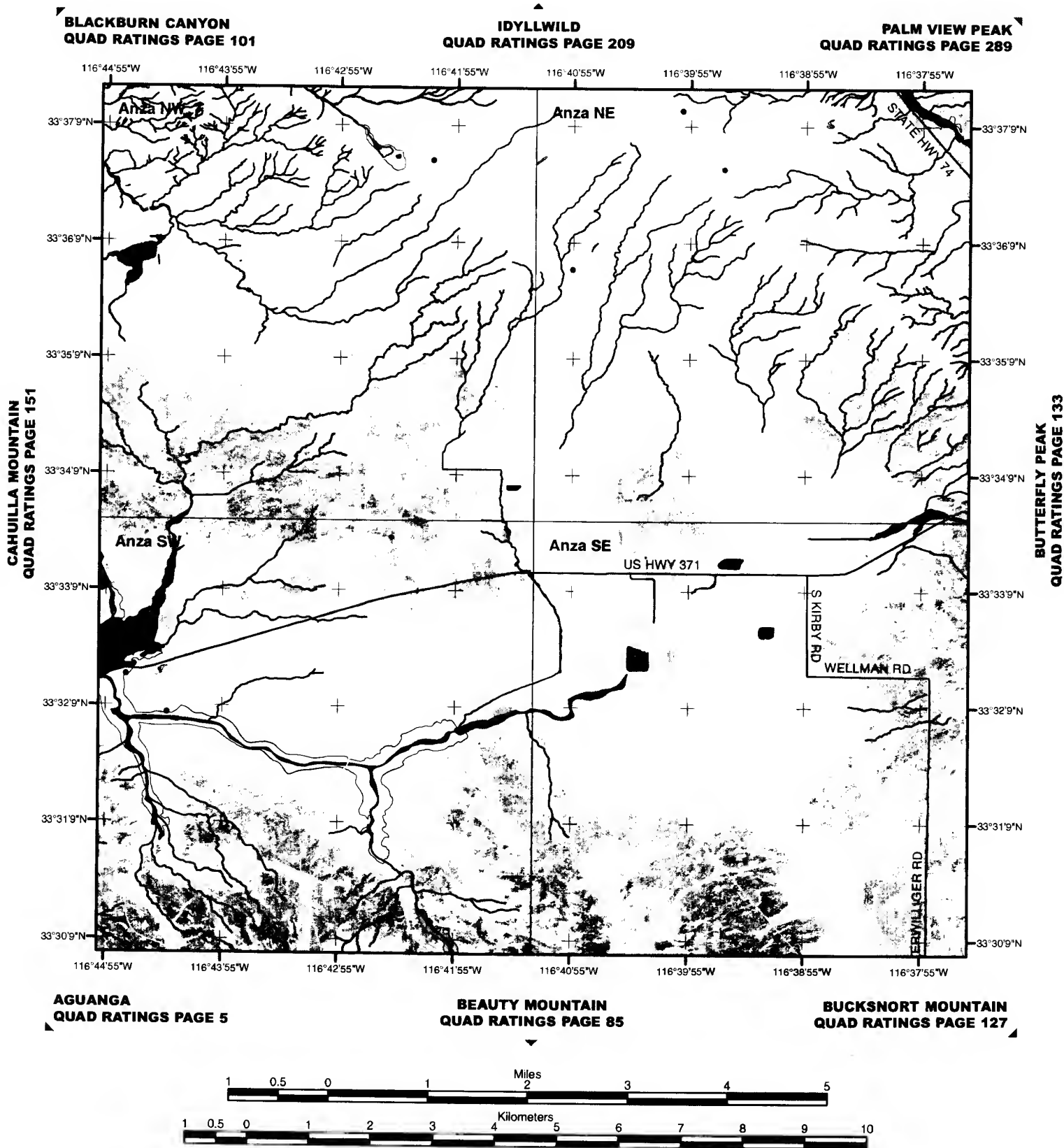




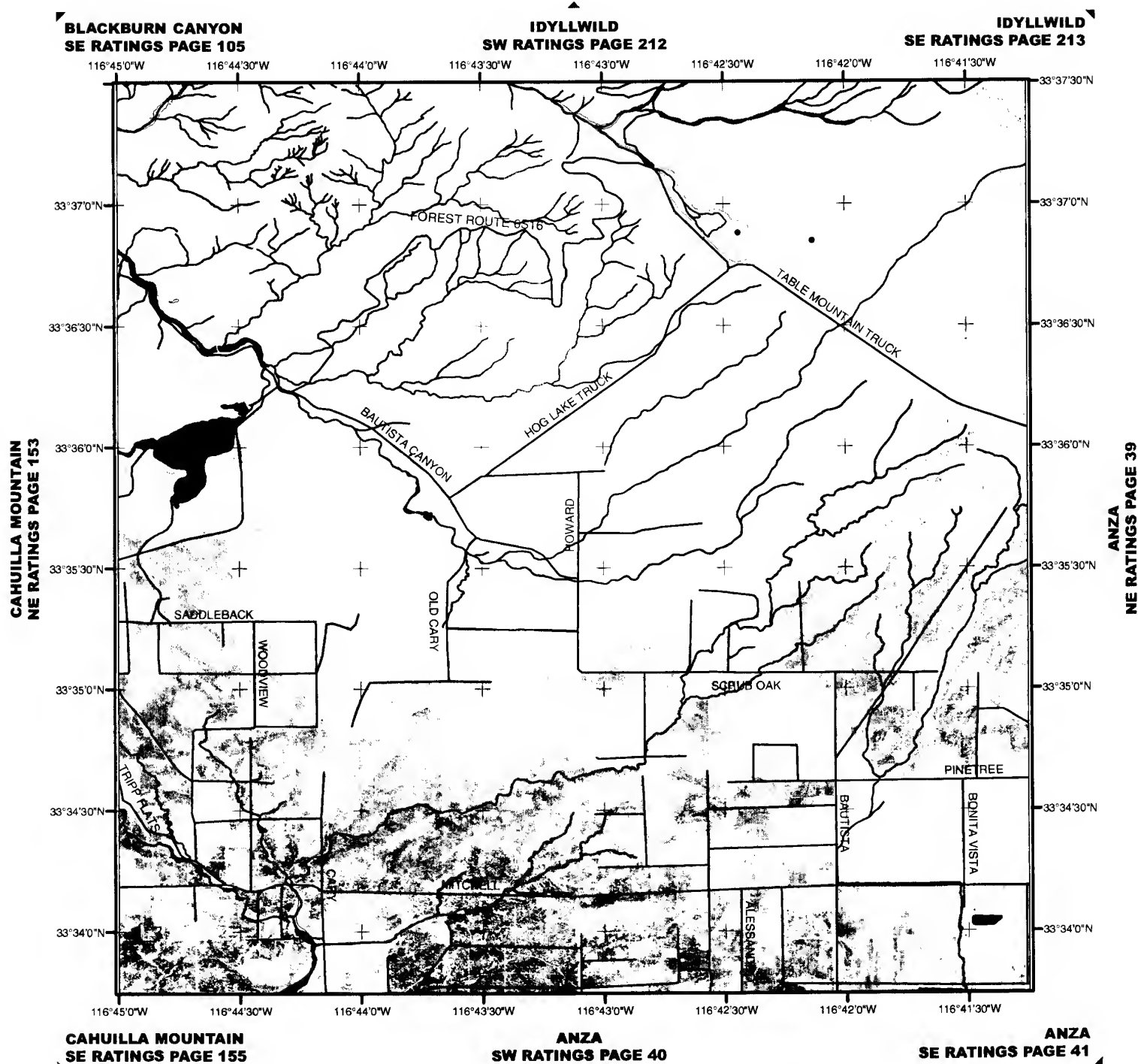


# Anza Quadrangle

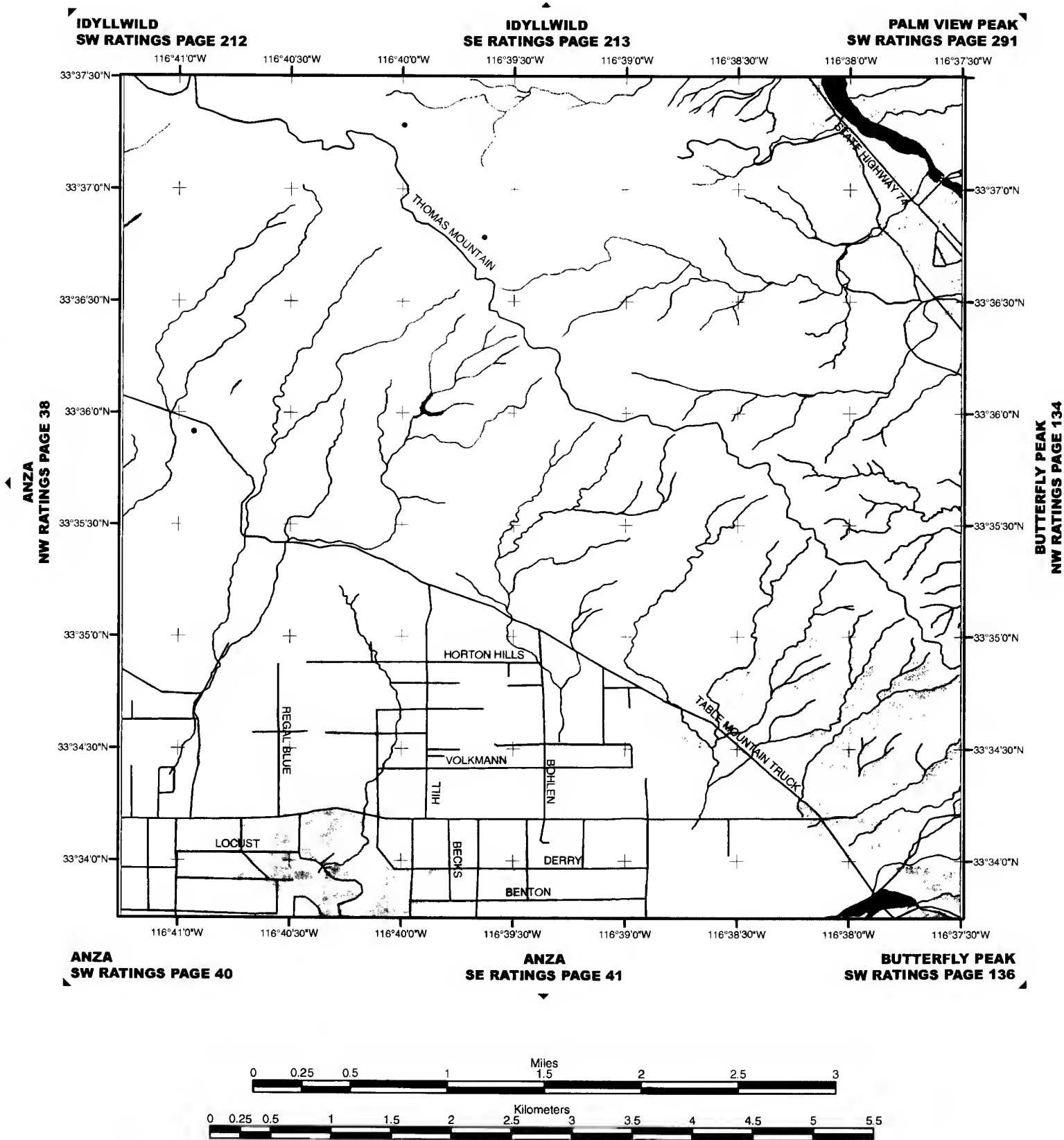
## Regulatory Probability Ratings for Aquatic Resources



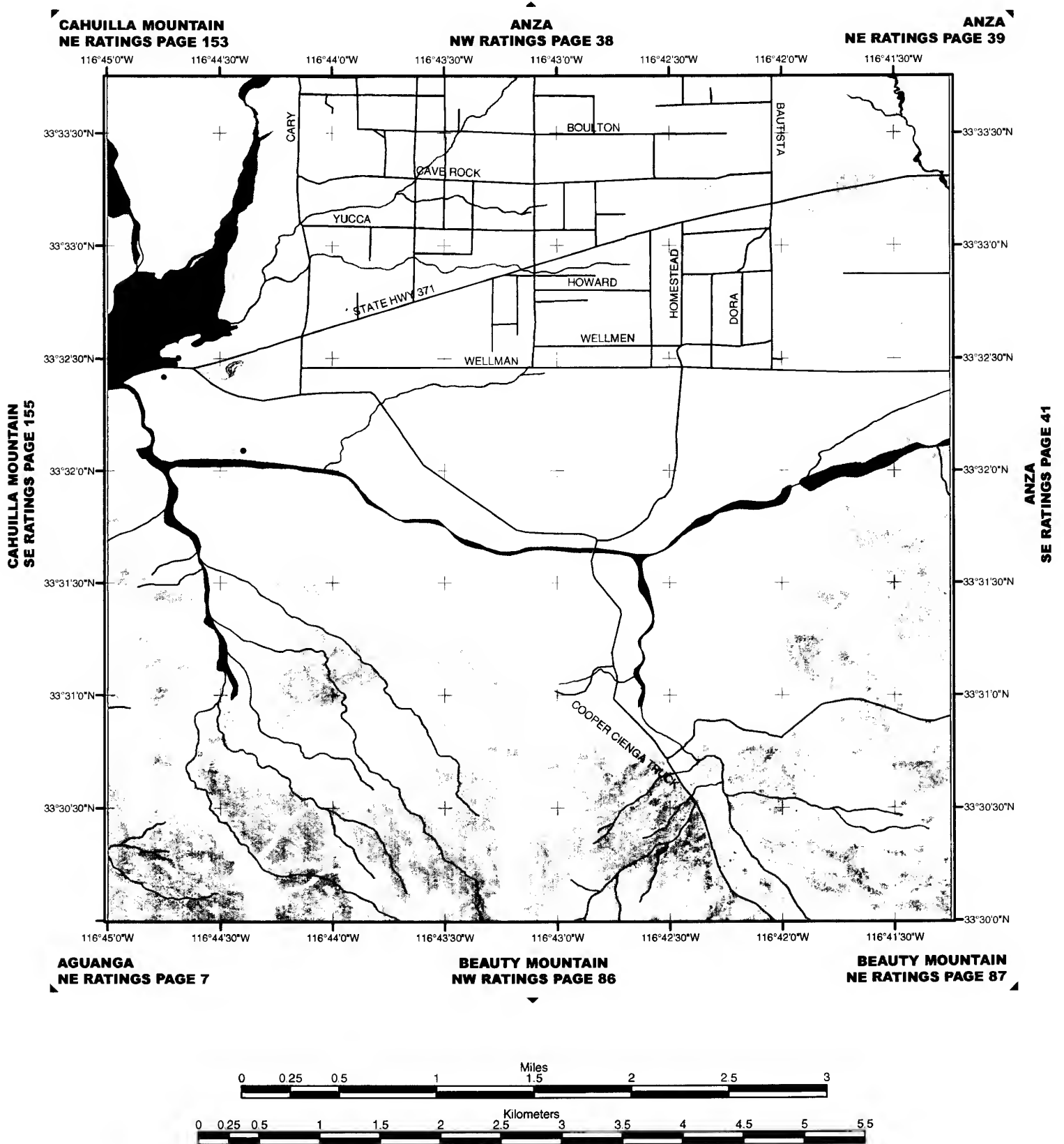
# Anza North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



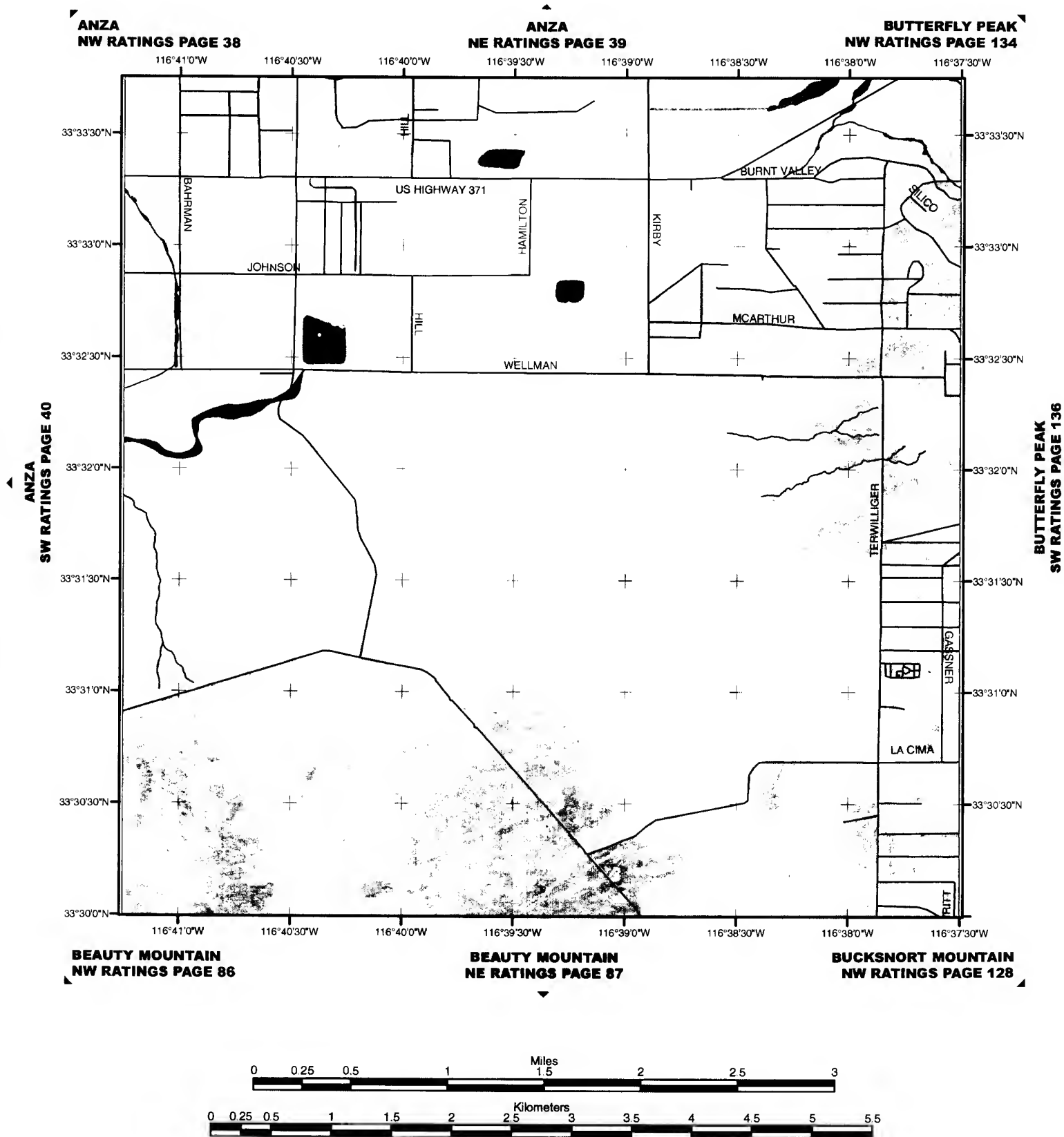
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# Anza South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

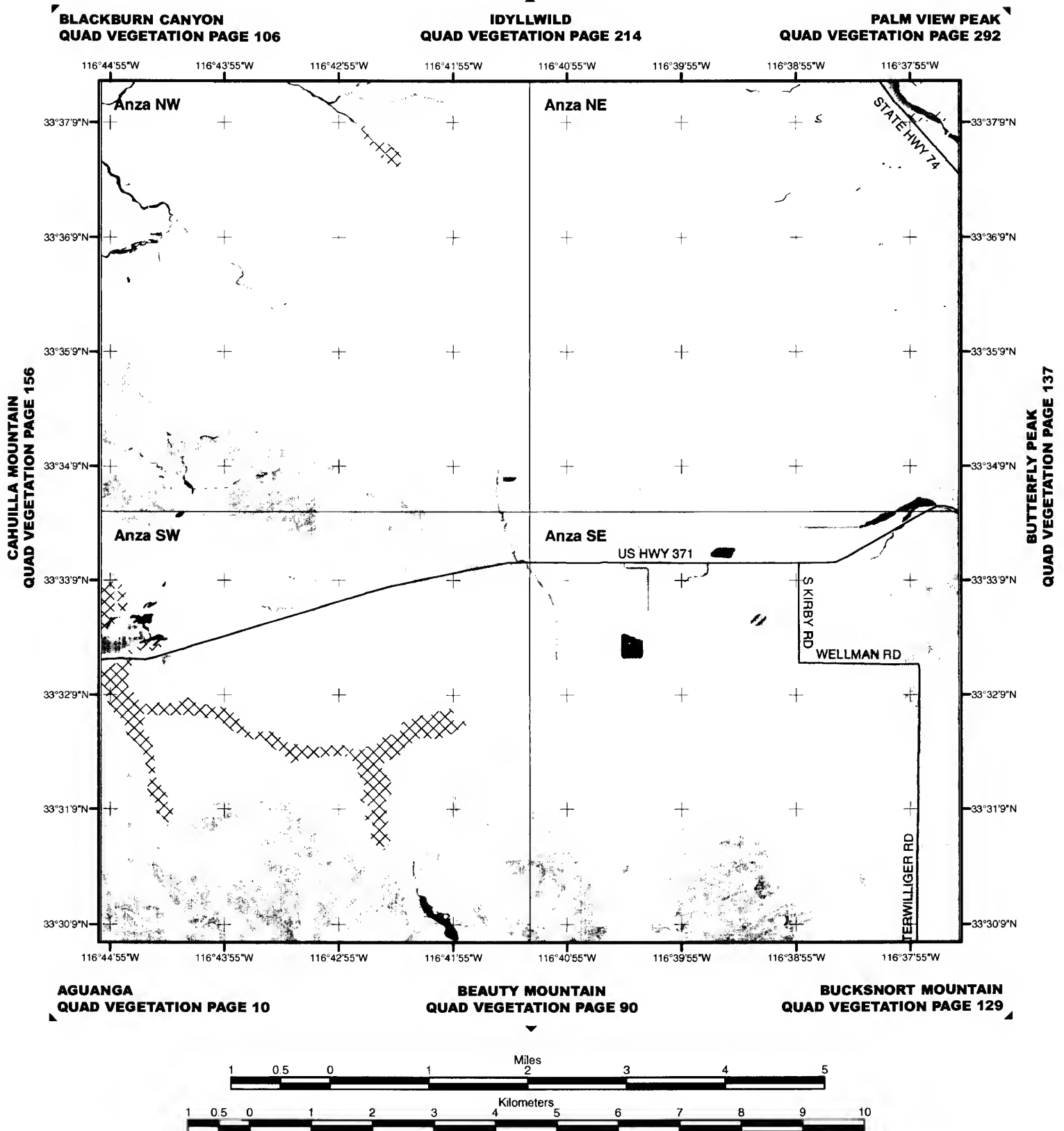


# Anza South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



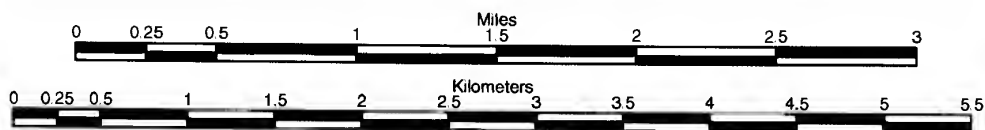
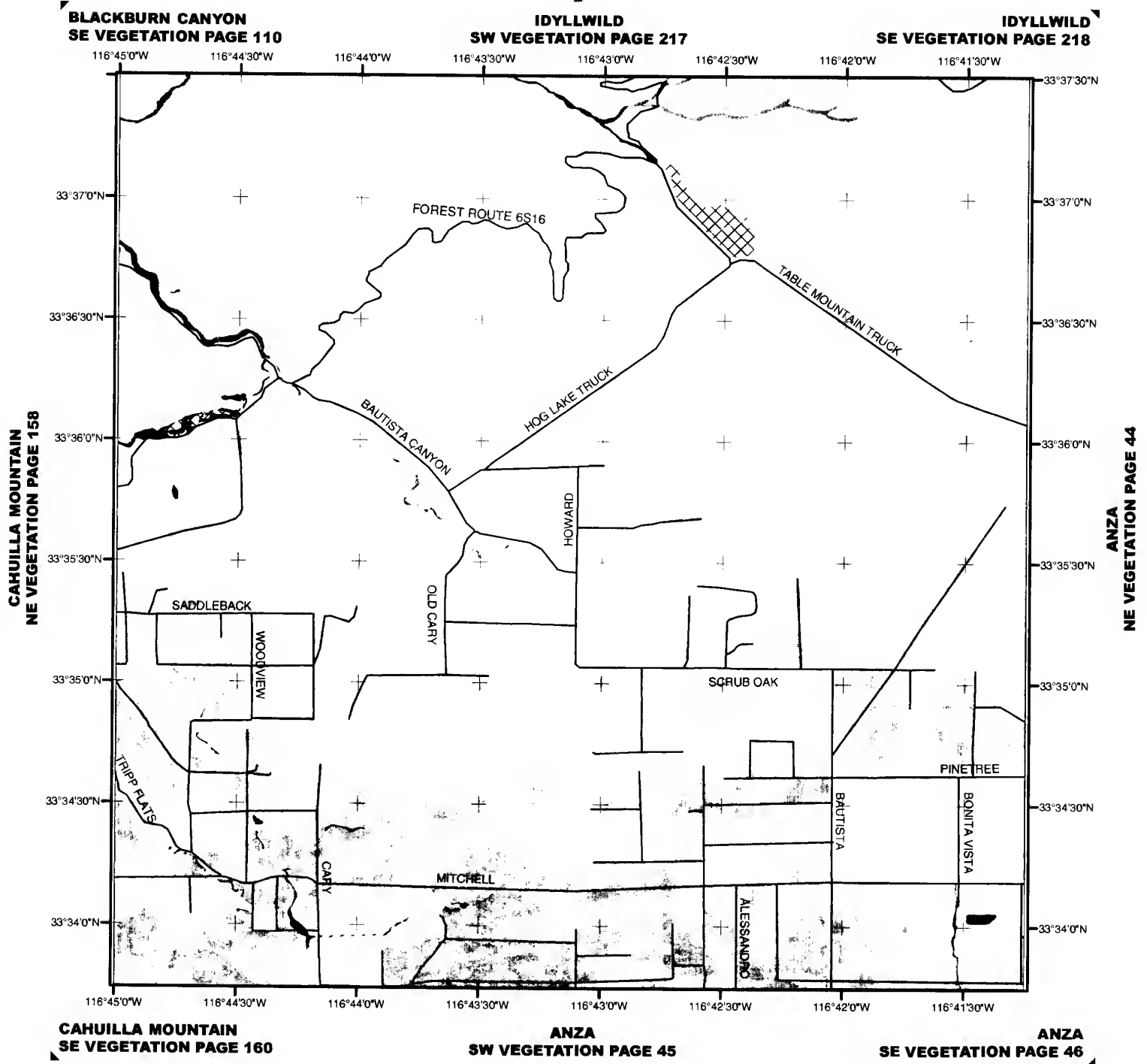
# Anza Quadrangle

## Vegetation Species Association Units for Aquatic Resources



# Anza North West Quarter-Quadrangle

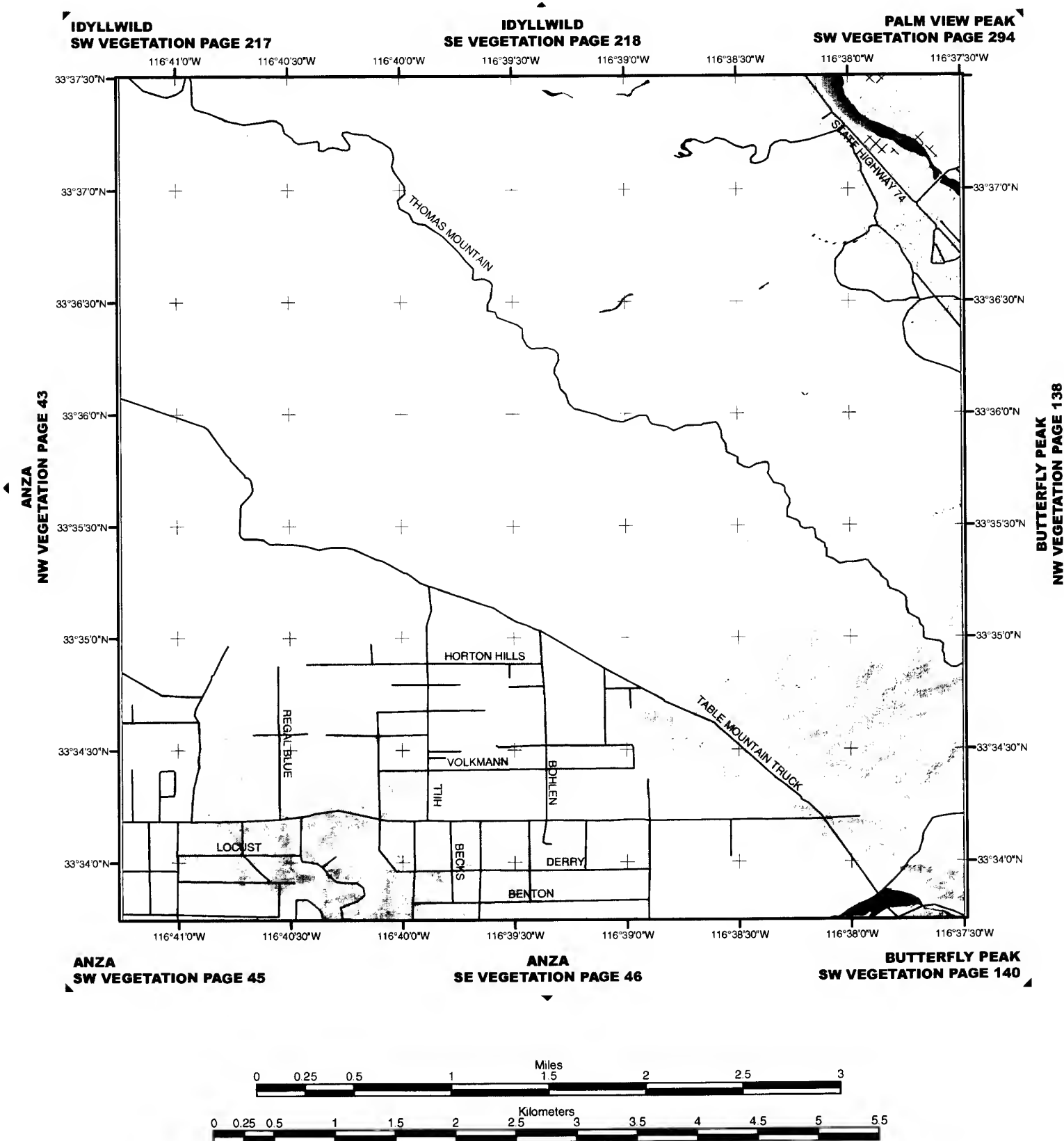
## Vegetation Species Association Units for Aquatic Resources



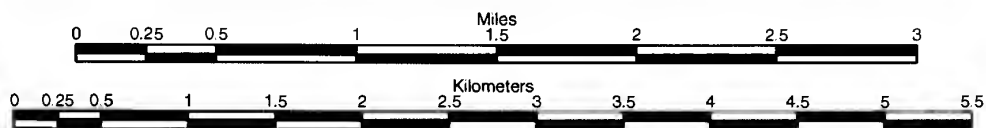
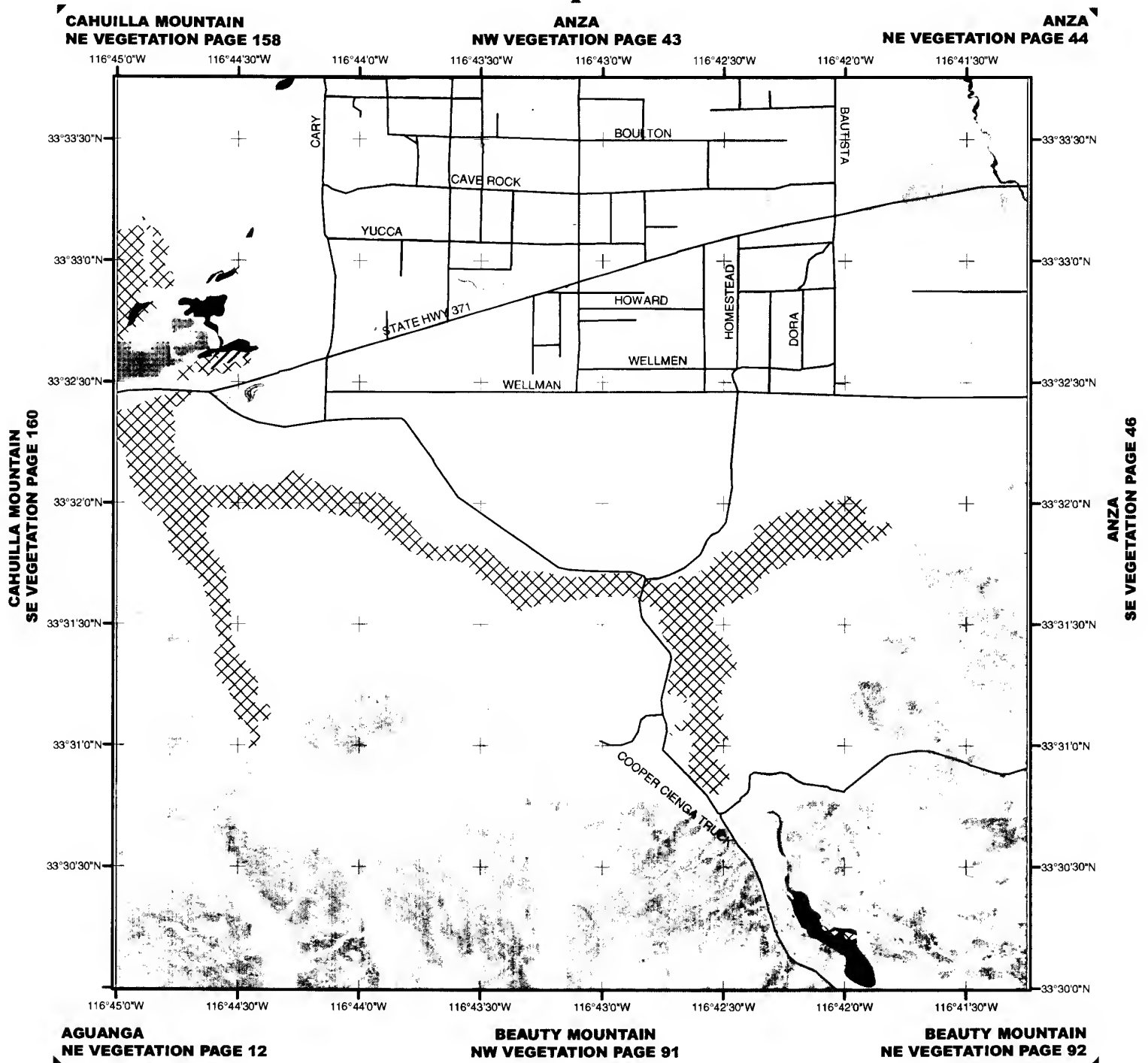


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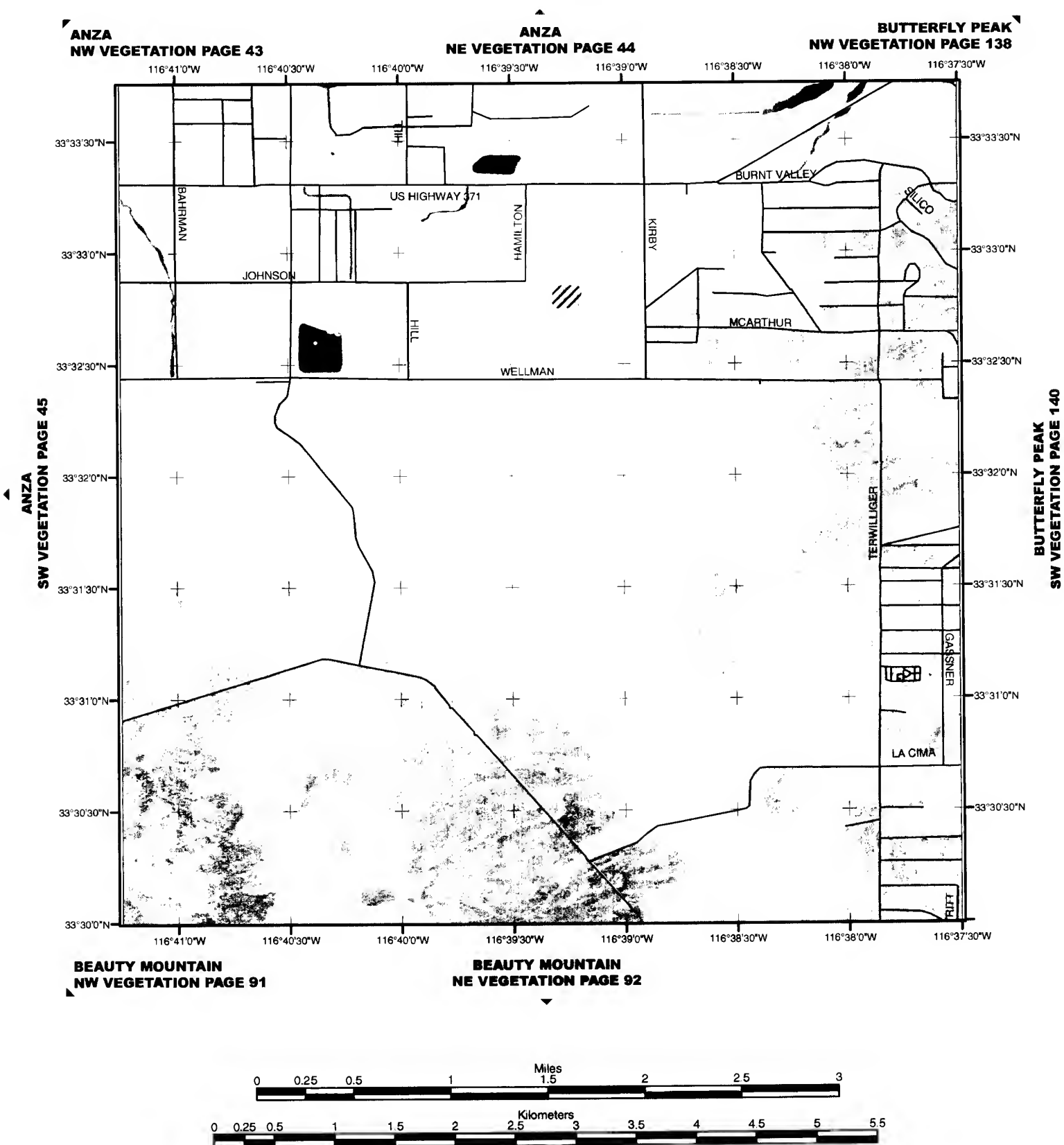
## Vegetation Species Association Units for Aquatic Resources



# Anza South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

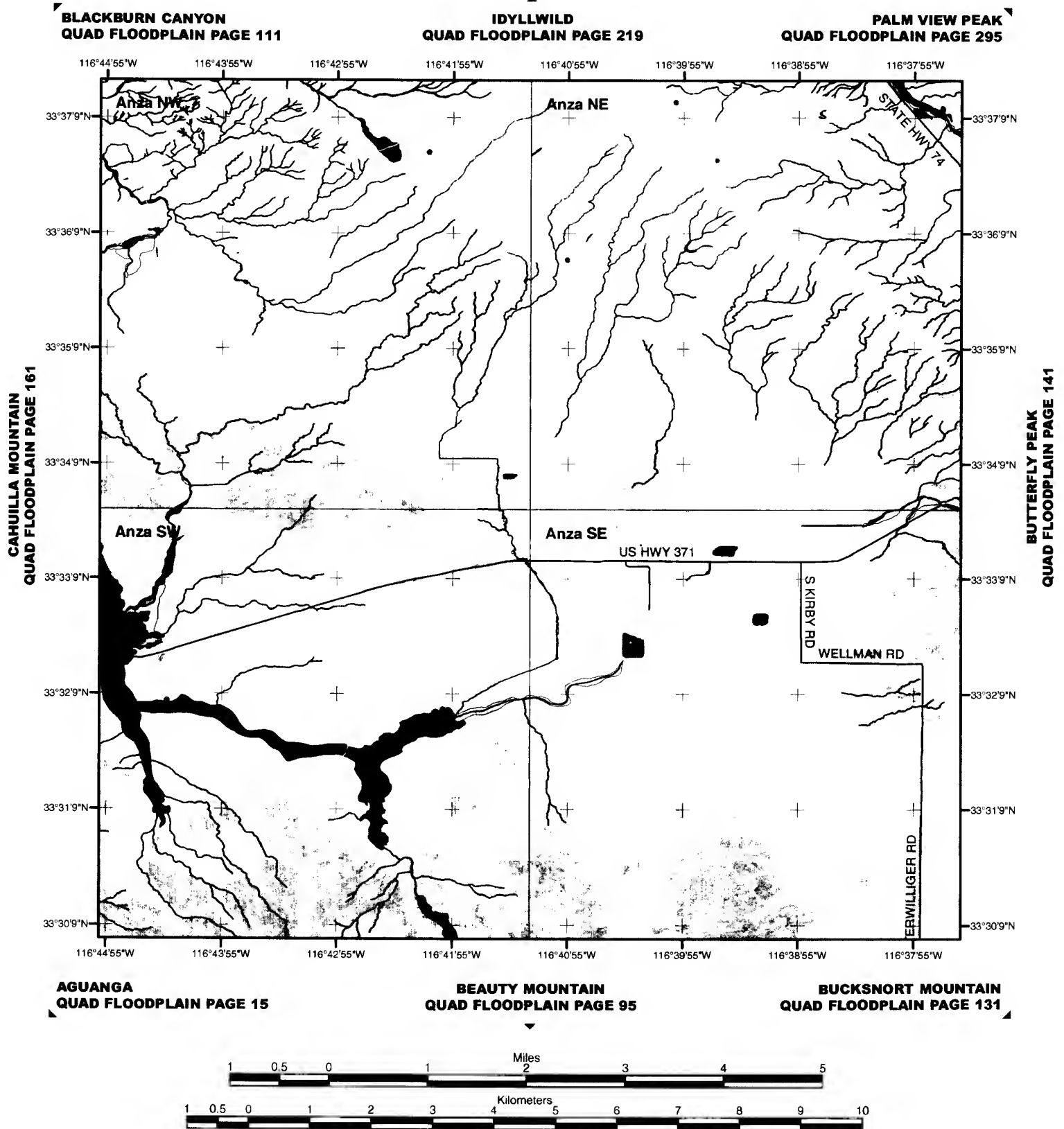


# Anza South East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

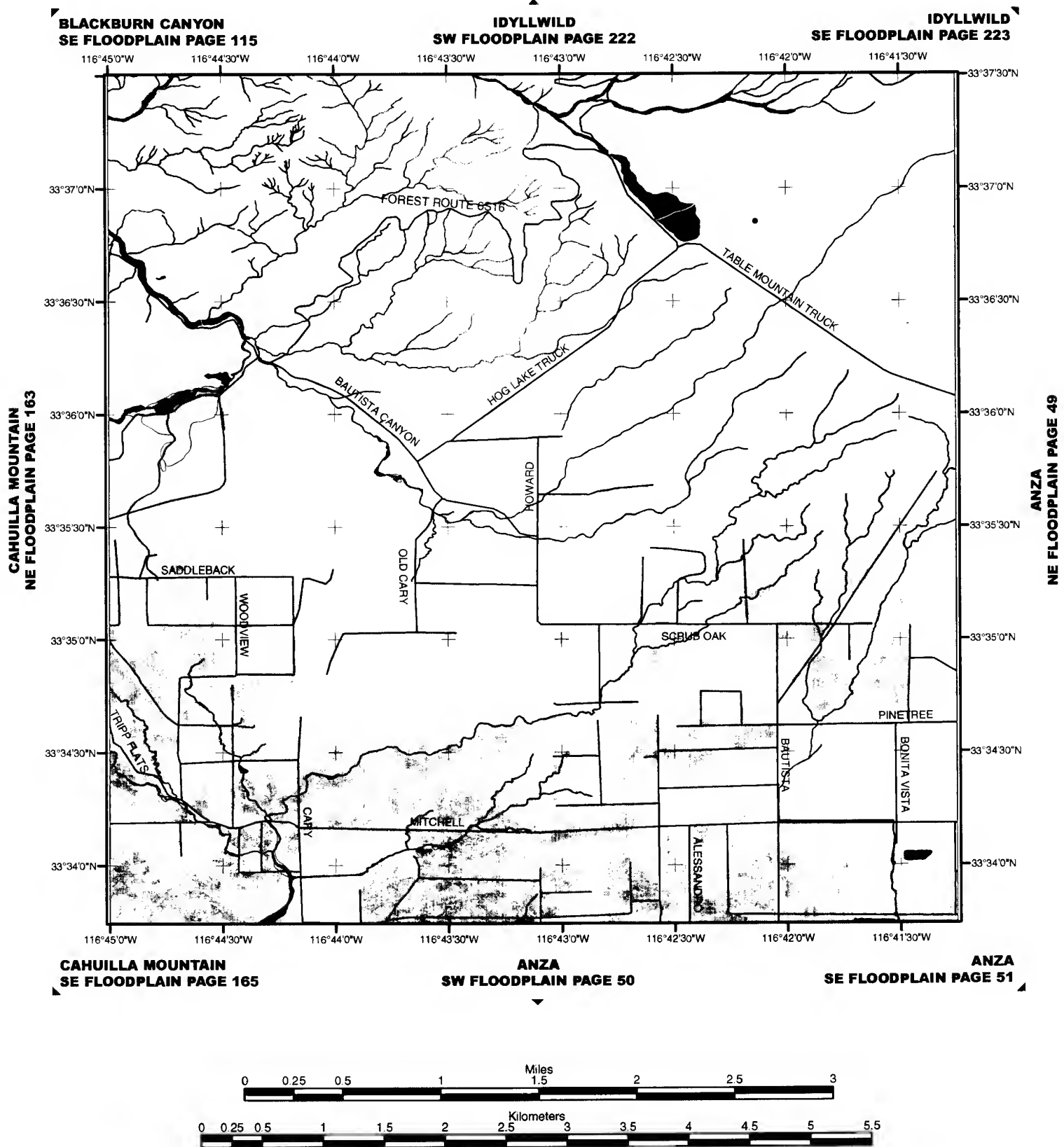


# Anza Quadrangle

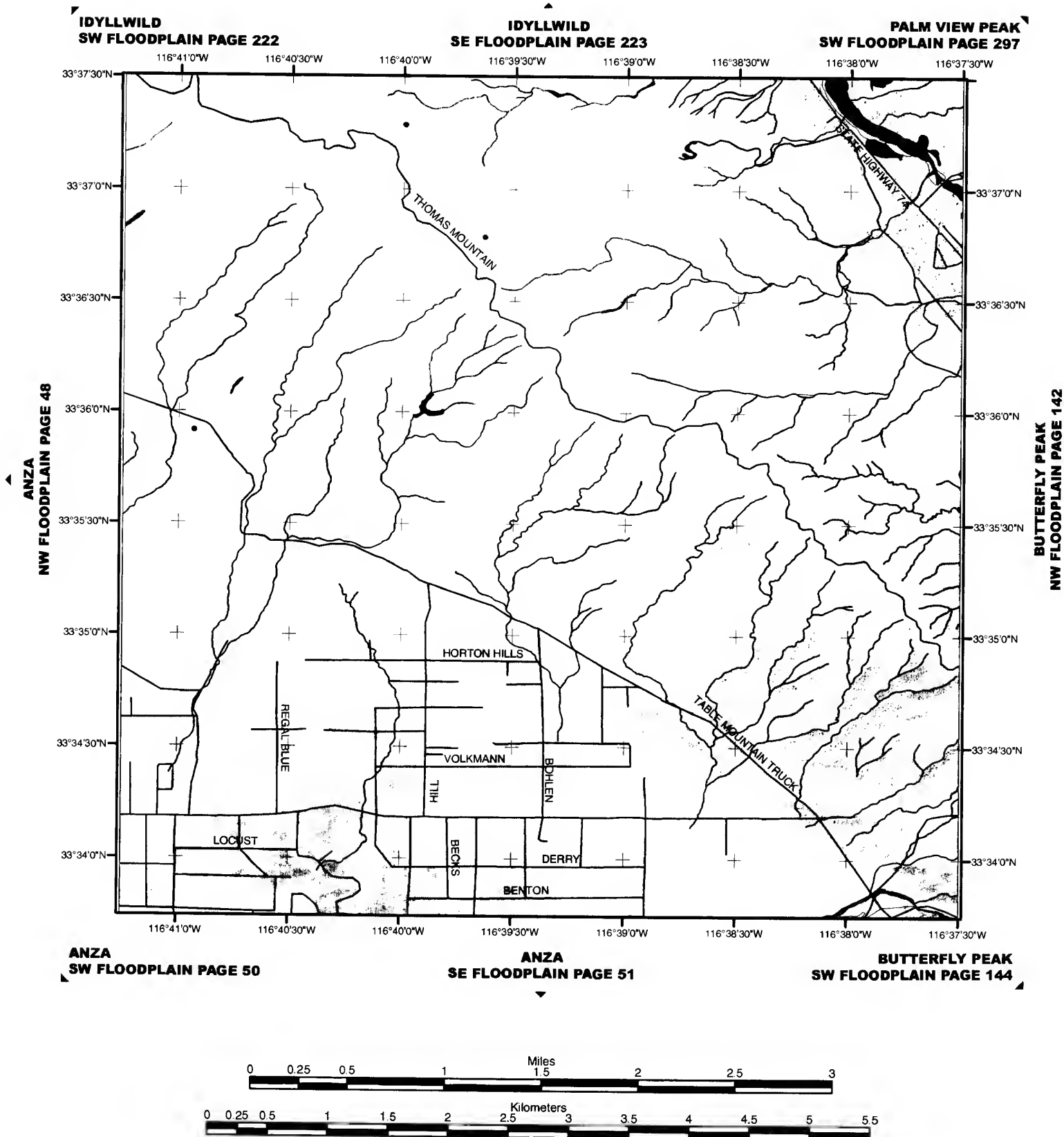
## Hydrogeomorphic Floodplain Units for Aquatic Resources



# Anza North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

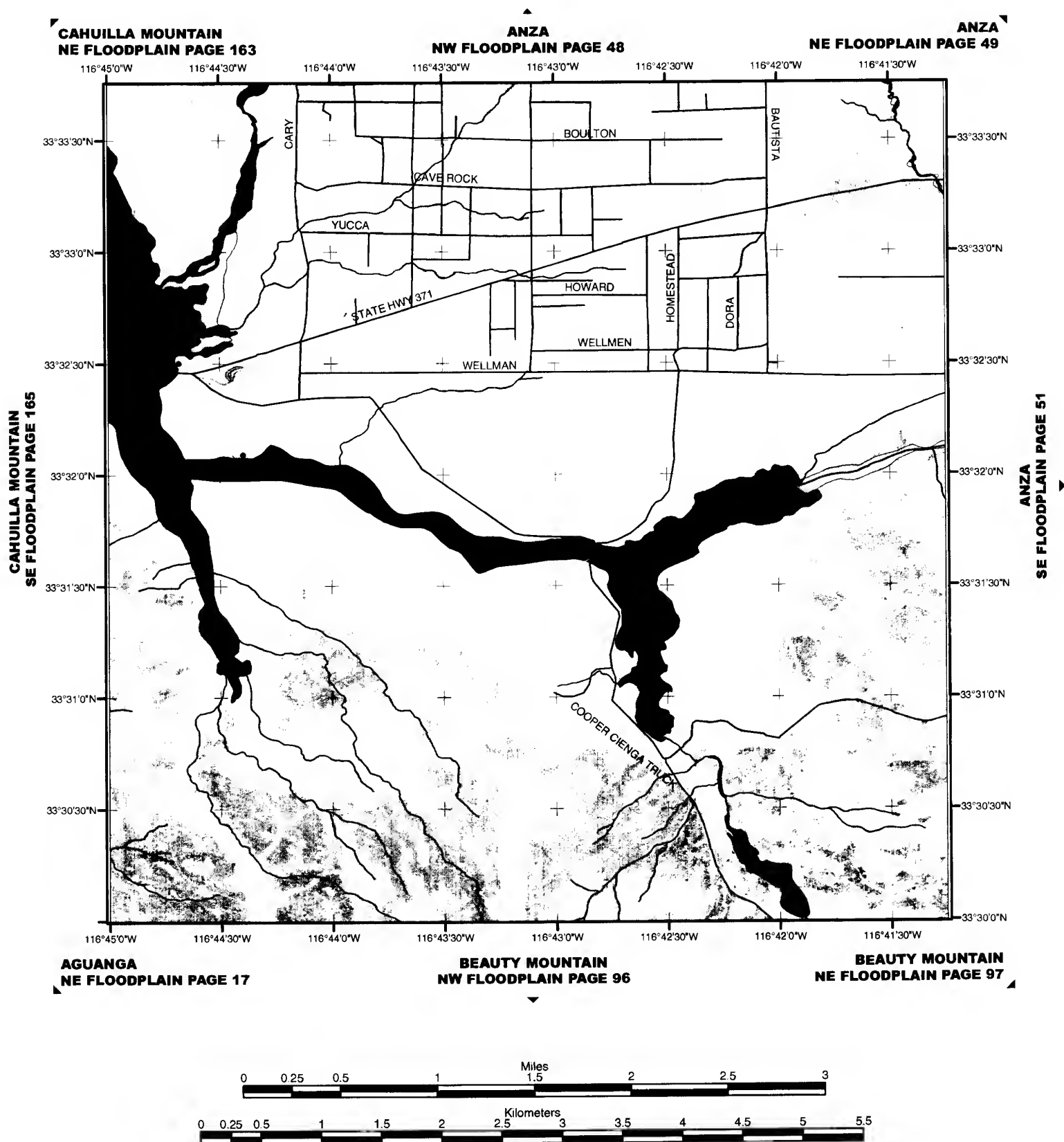


# Anza North East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

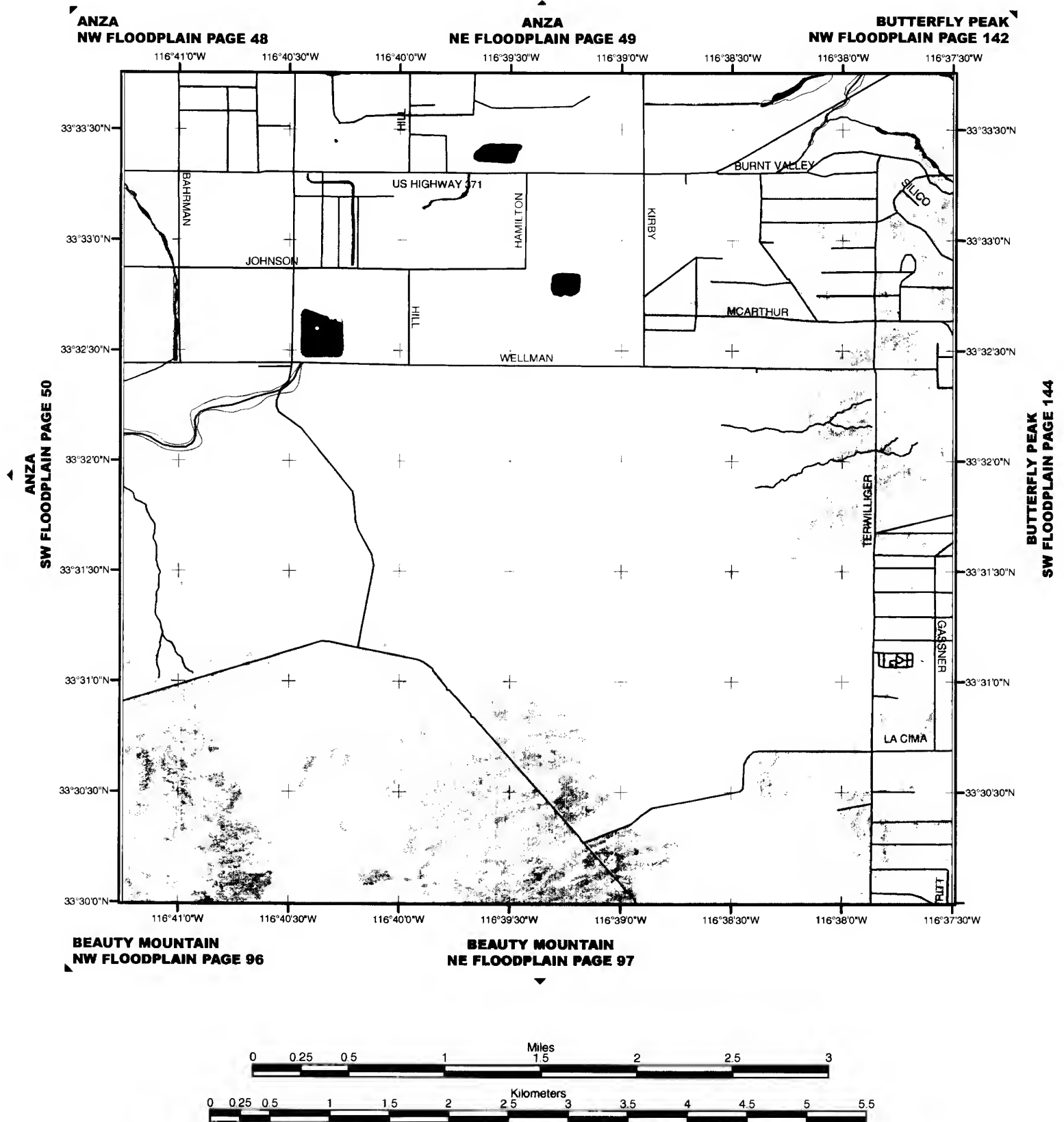


# Anza South West Quarter-Quadrangle

## Hydrogeomorphic Floodplain Units for Aquatic Resources



# Anza South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

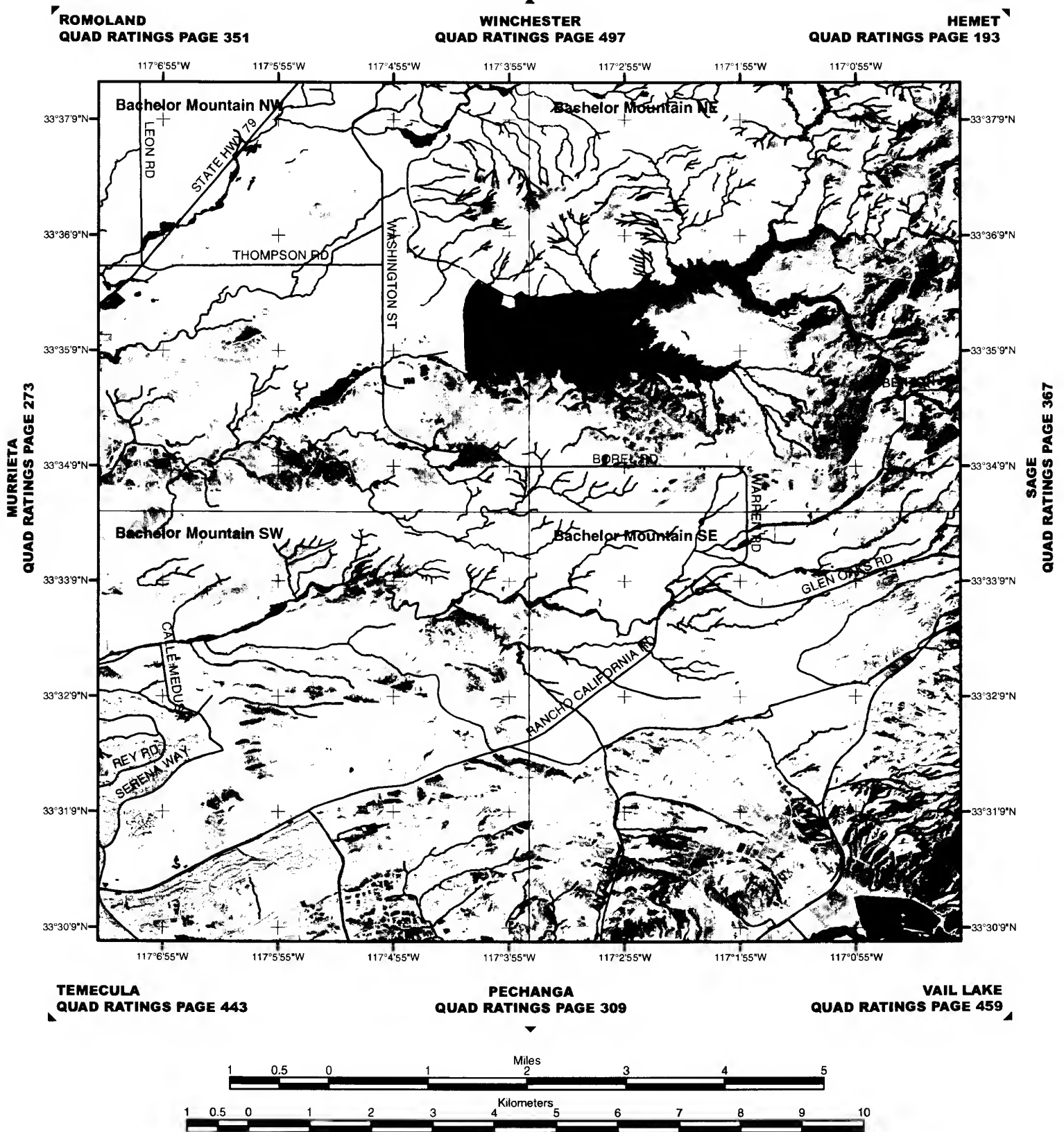




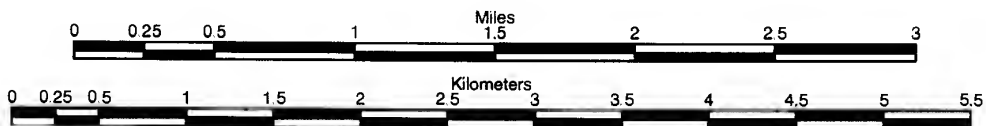
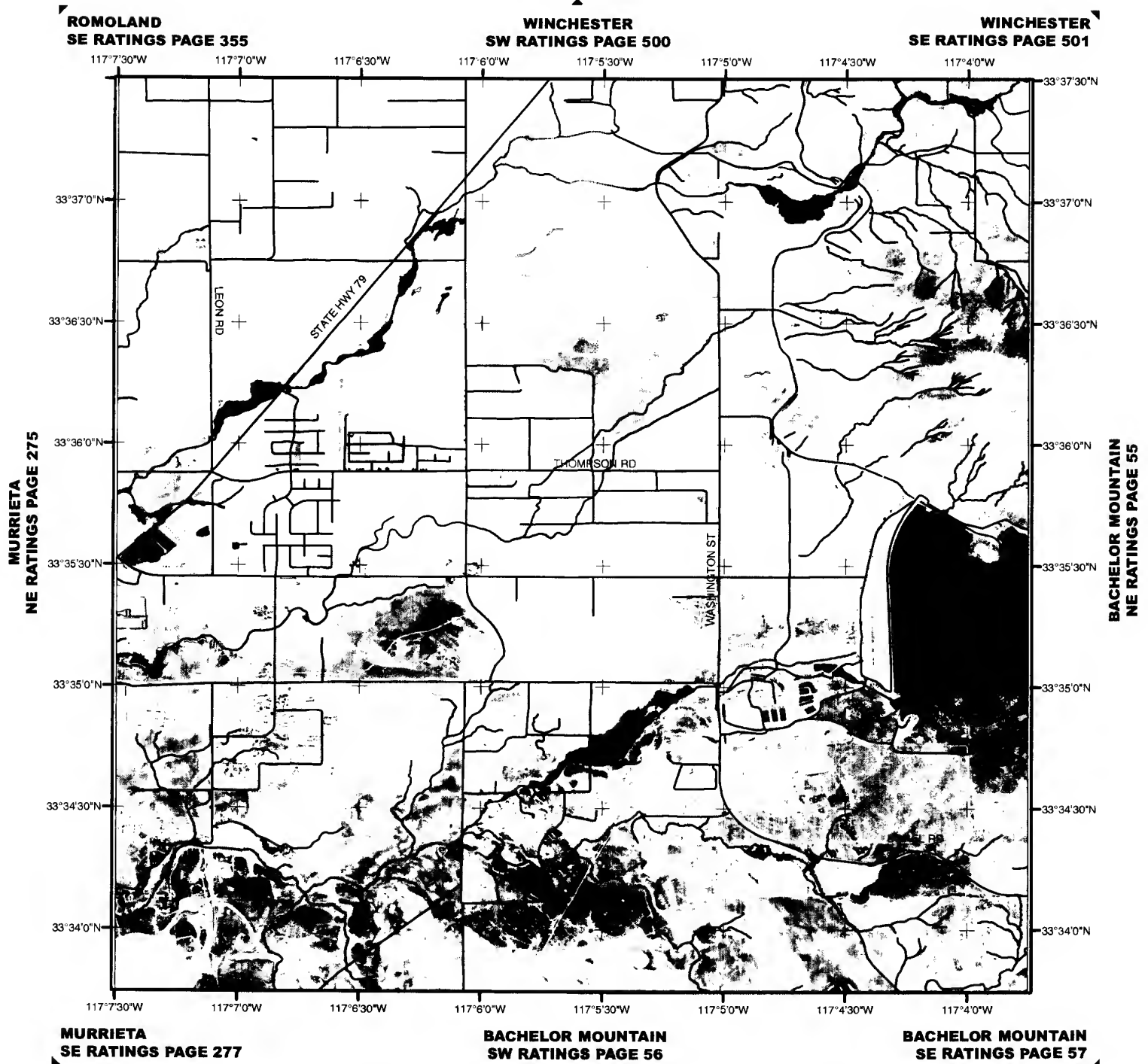


# Bachelor Mountain Quadrangle

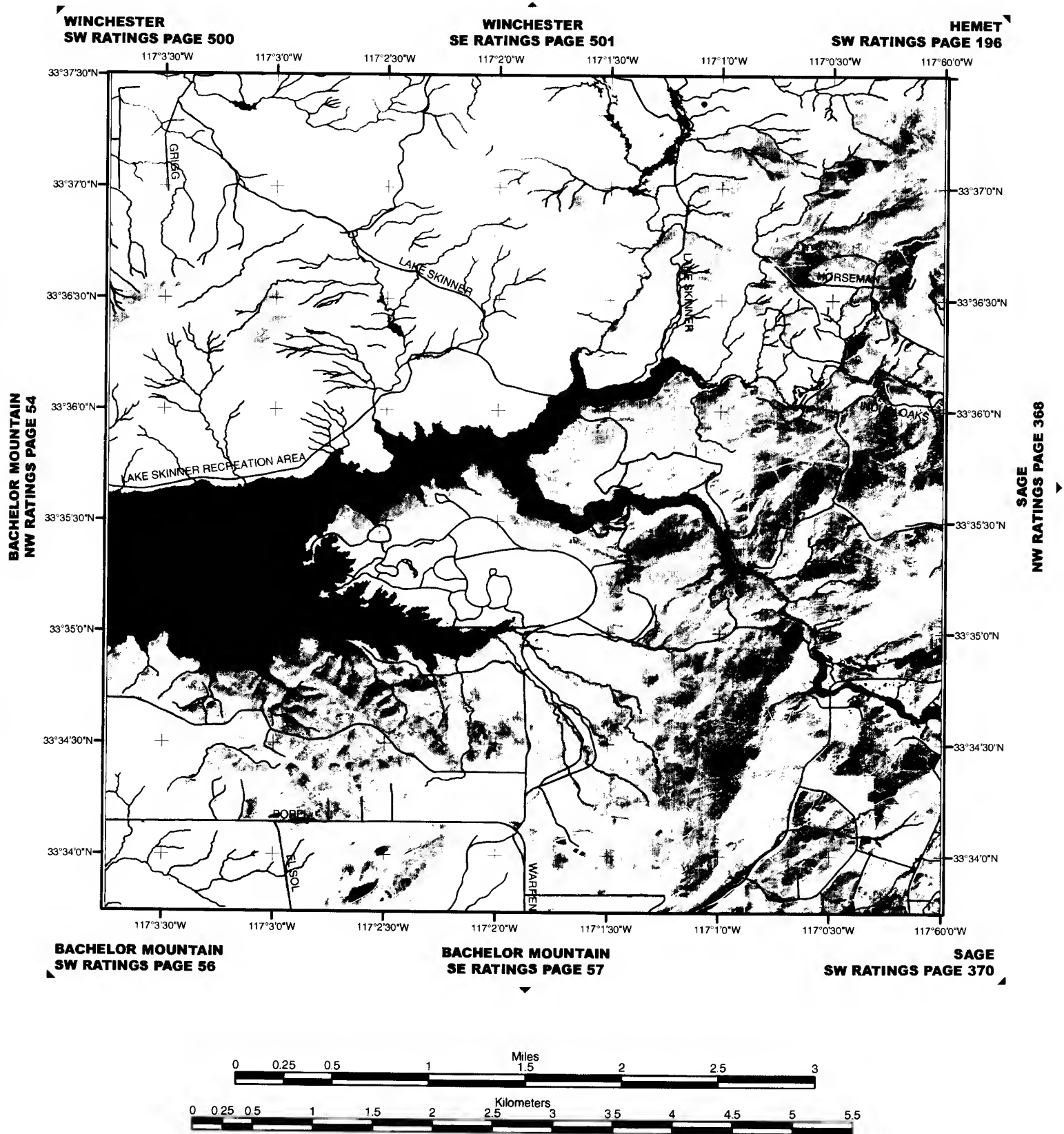
## Regulatory Probability Ratings for Aquatic Resources



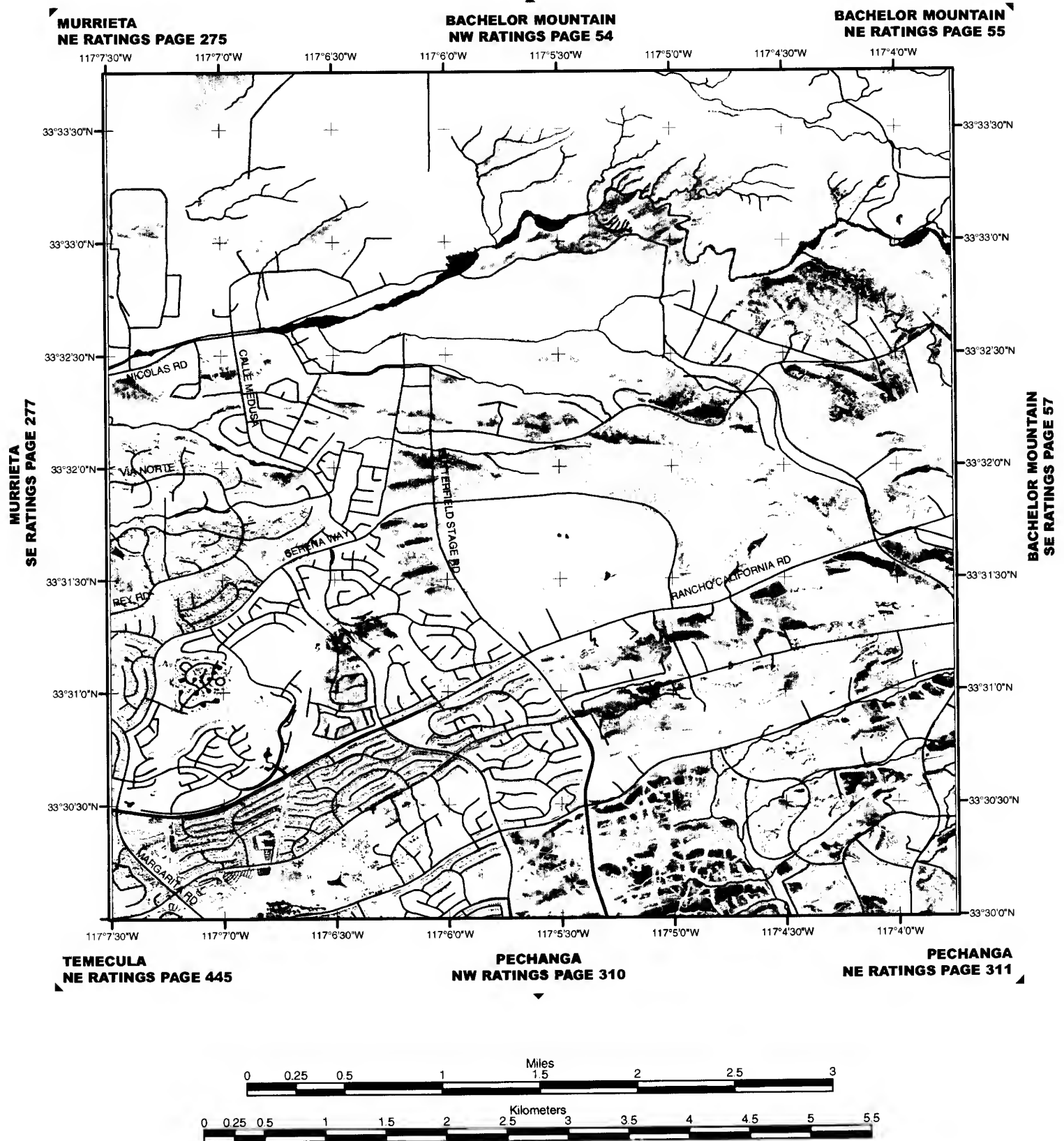
# Bachelor Mountain North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



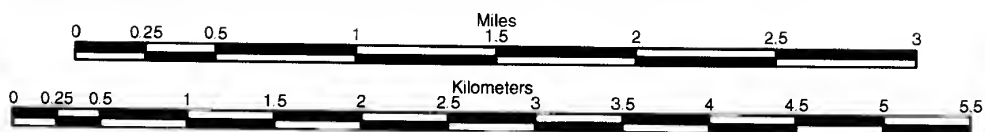
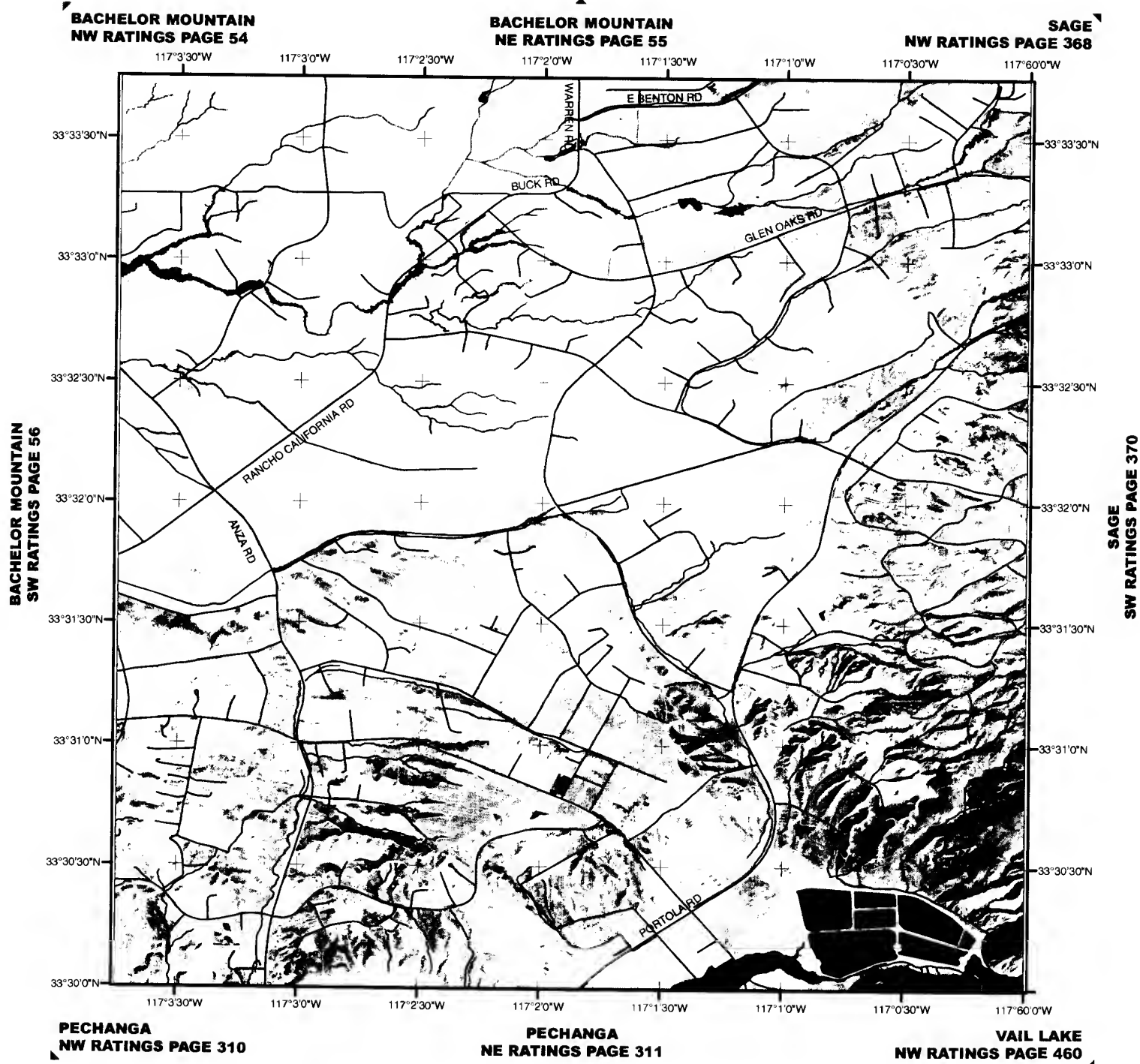
# Bachelor Mountain North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



# Bachelor Mountain South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

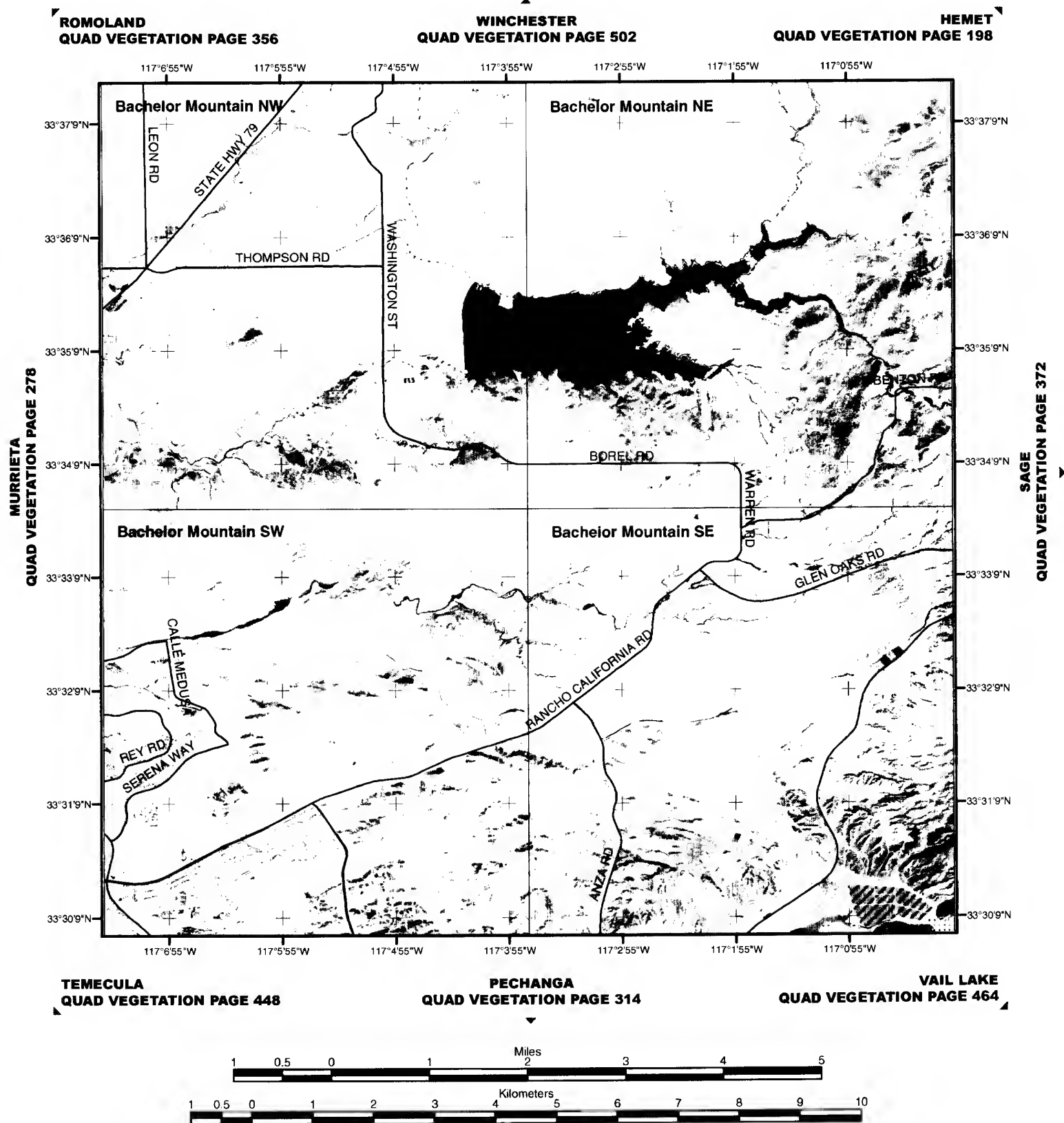


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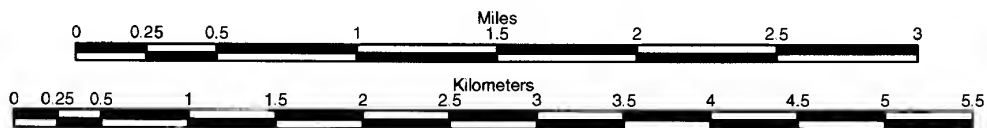
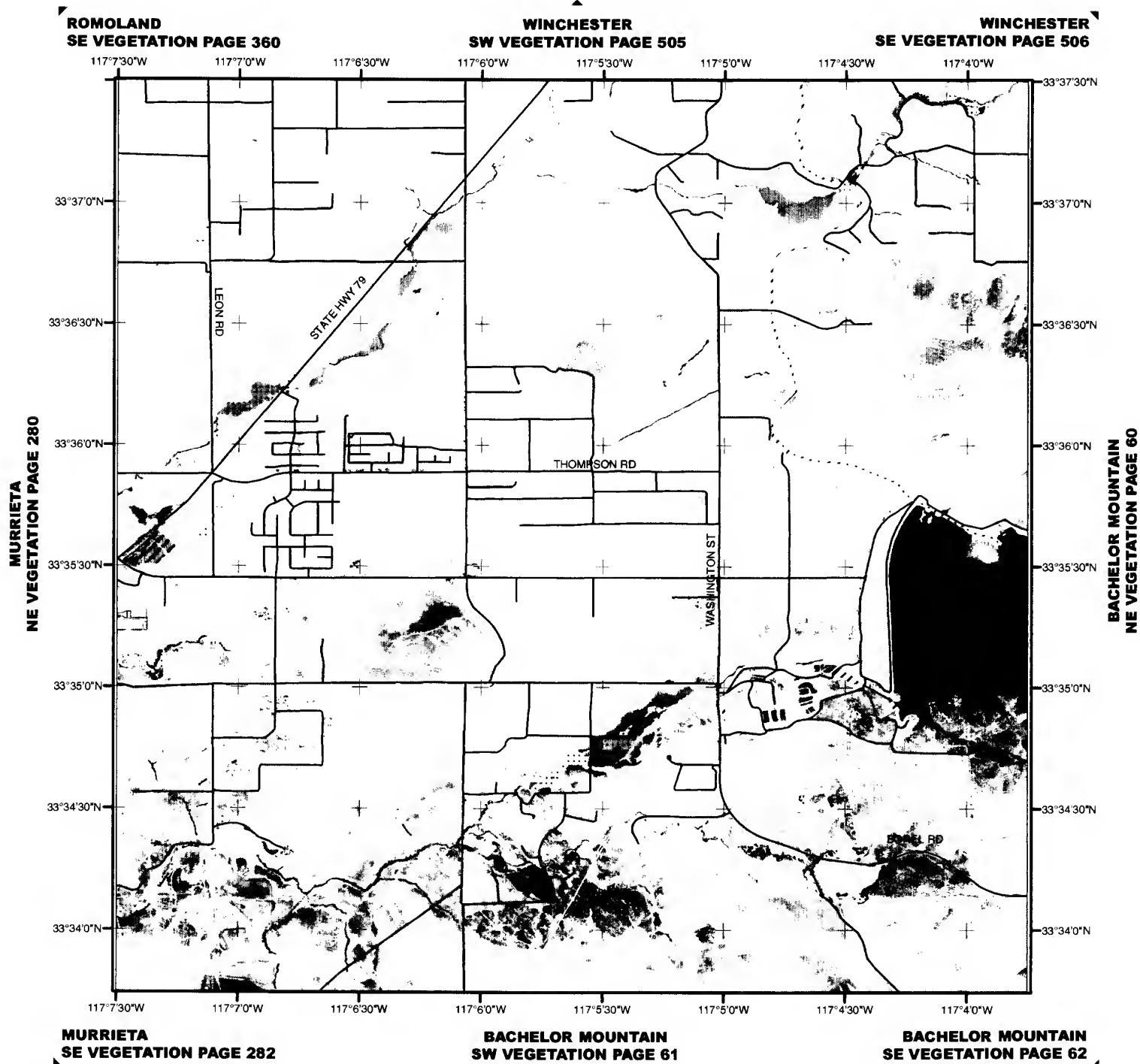
# Bachelor Mountain Quadrangle

## Vegetation Species Association Units for Aquatic Resources



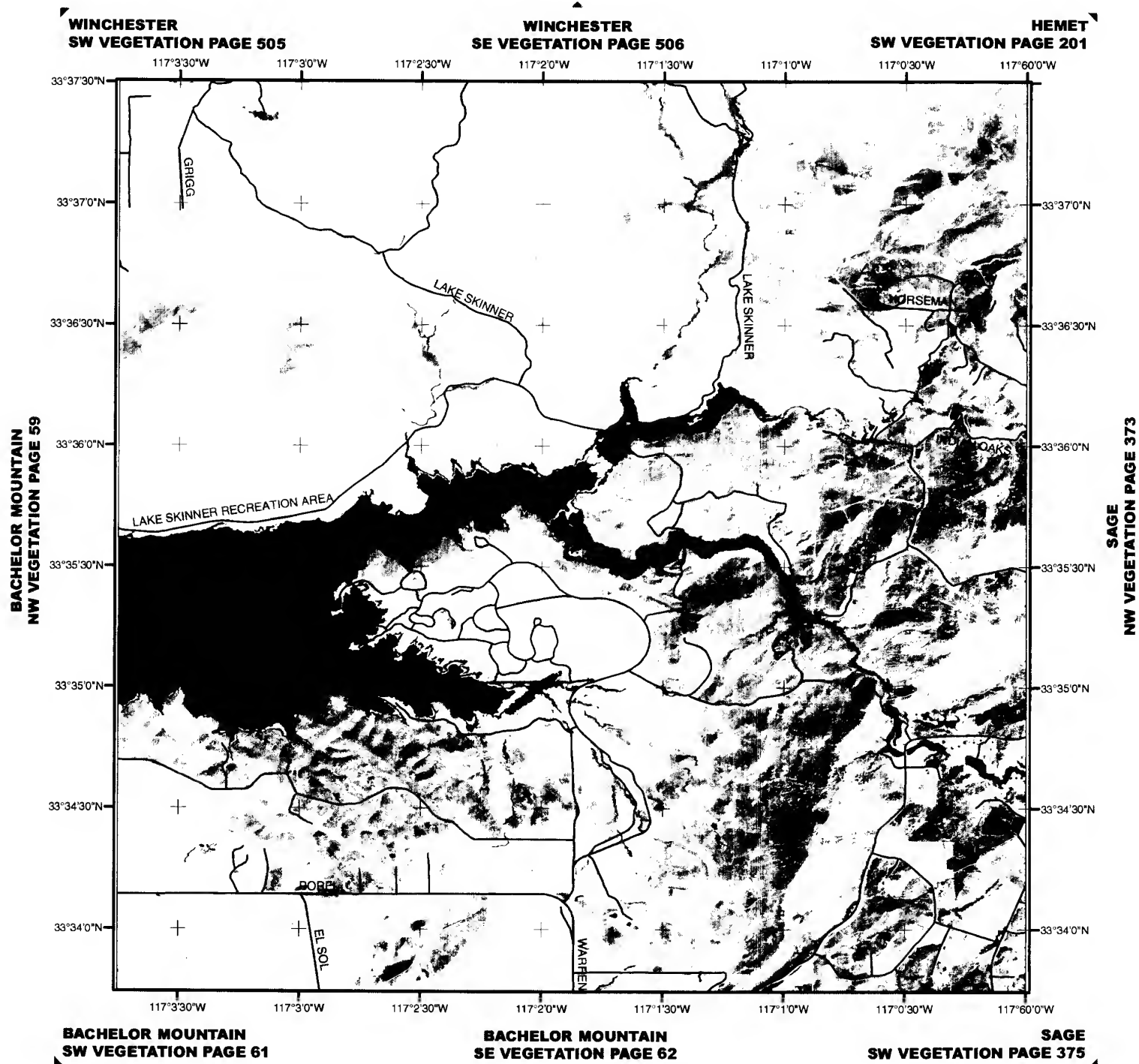


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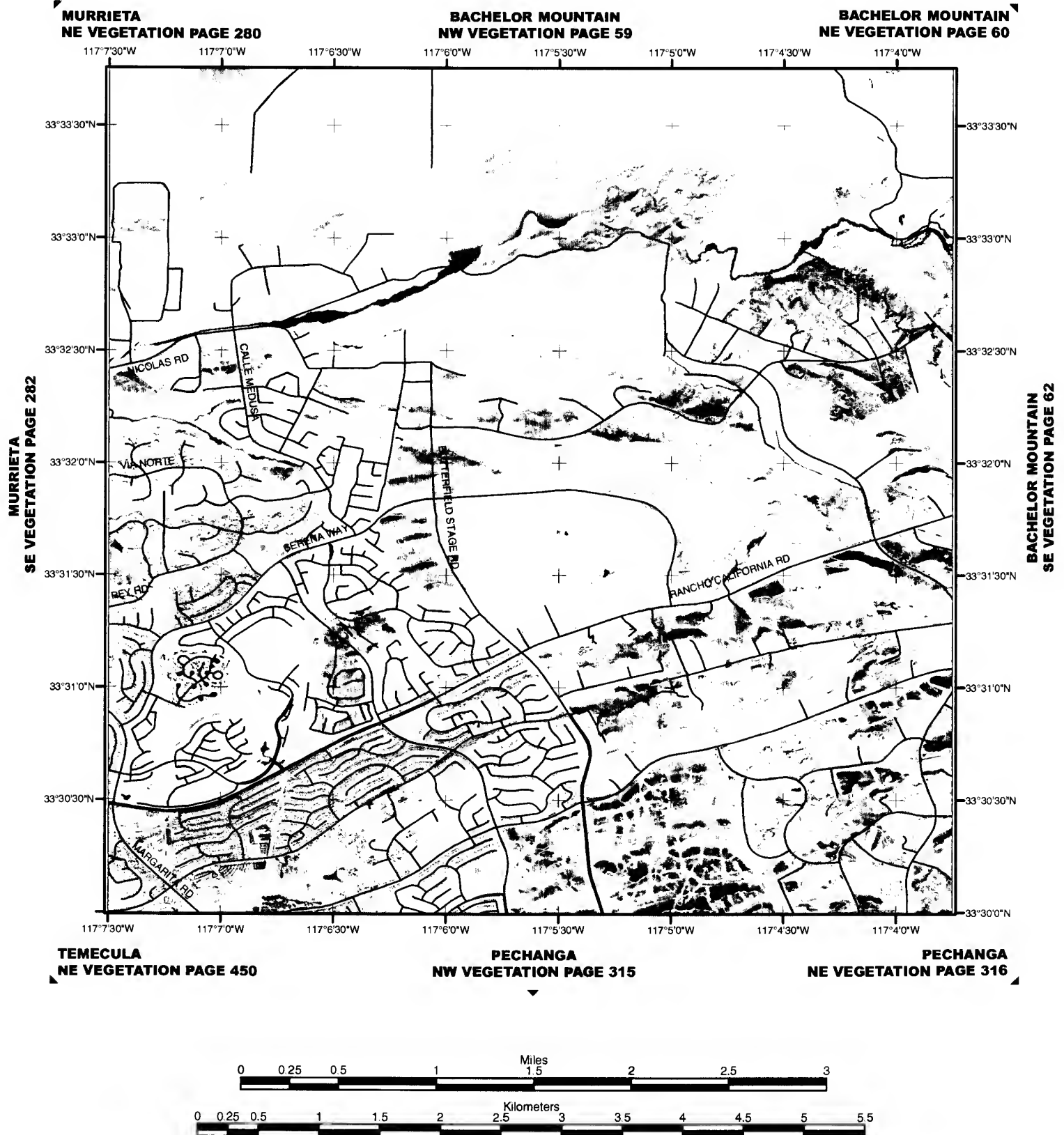




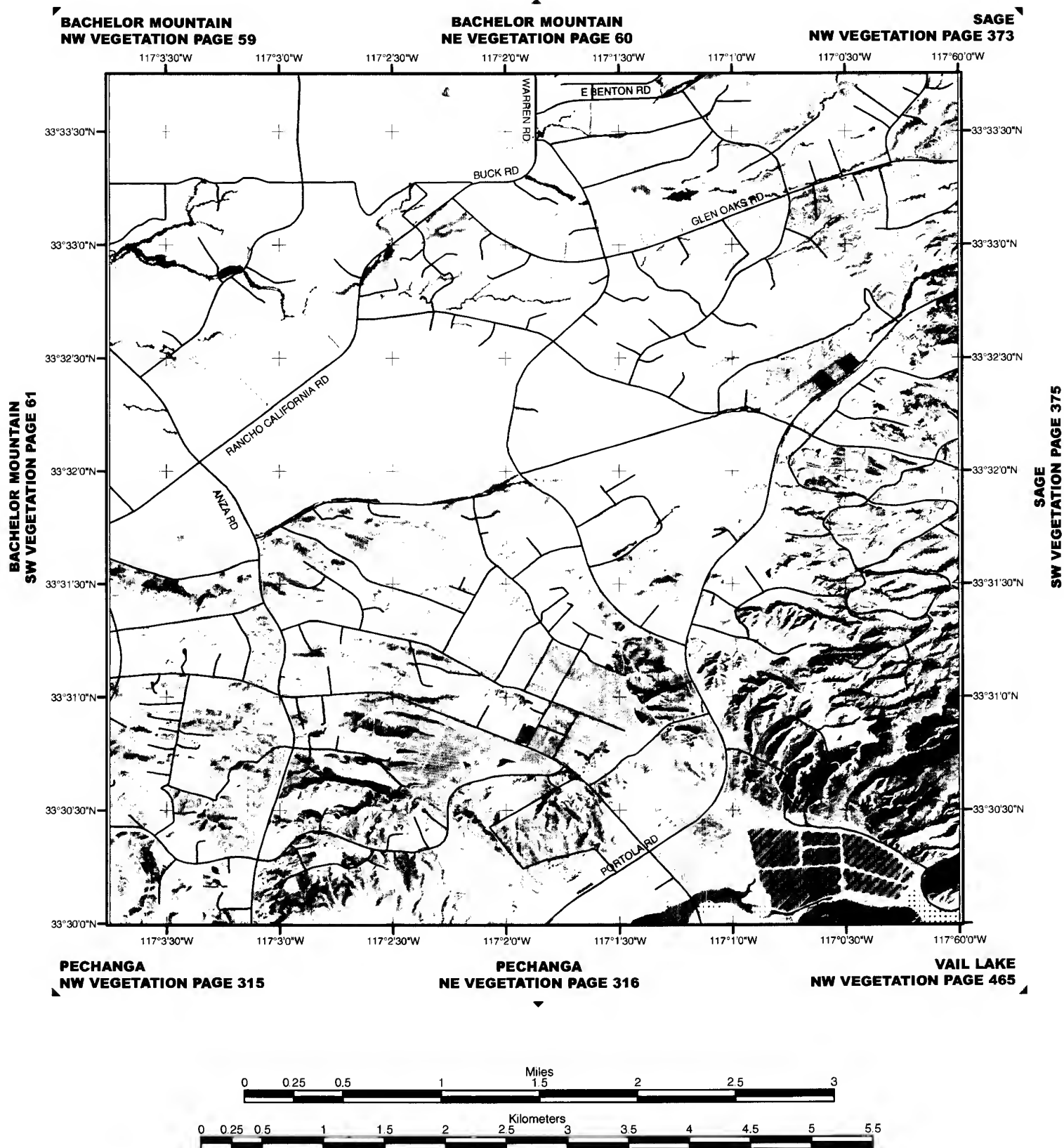
# Bachelor Mountain North East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



# Bachelor Mountain South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

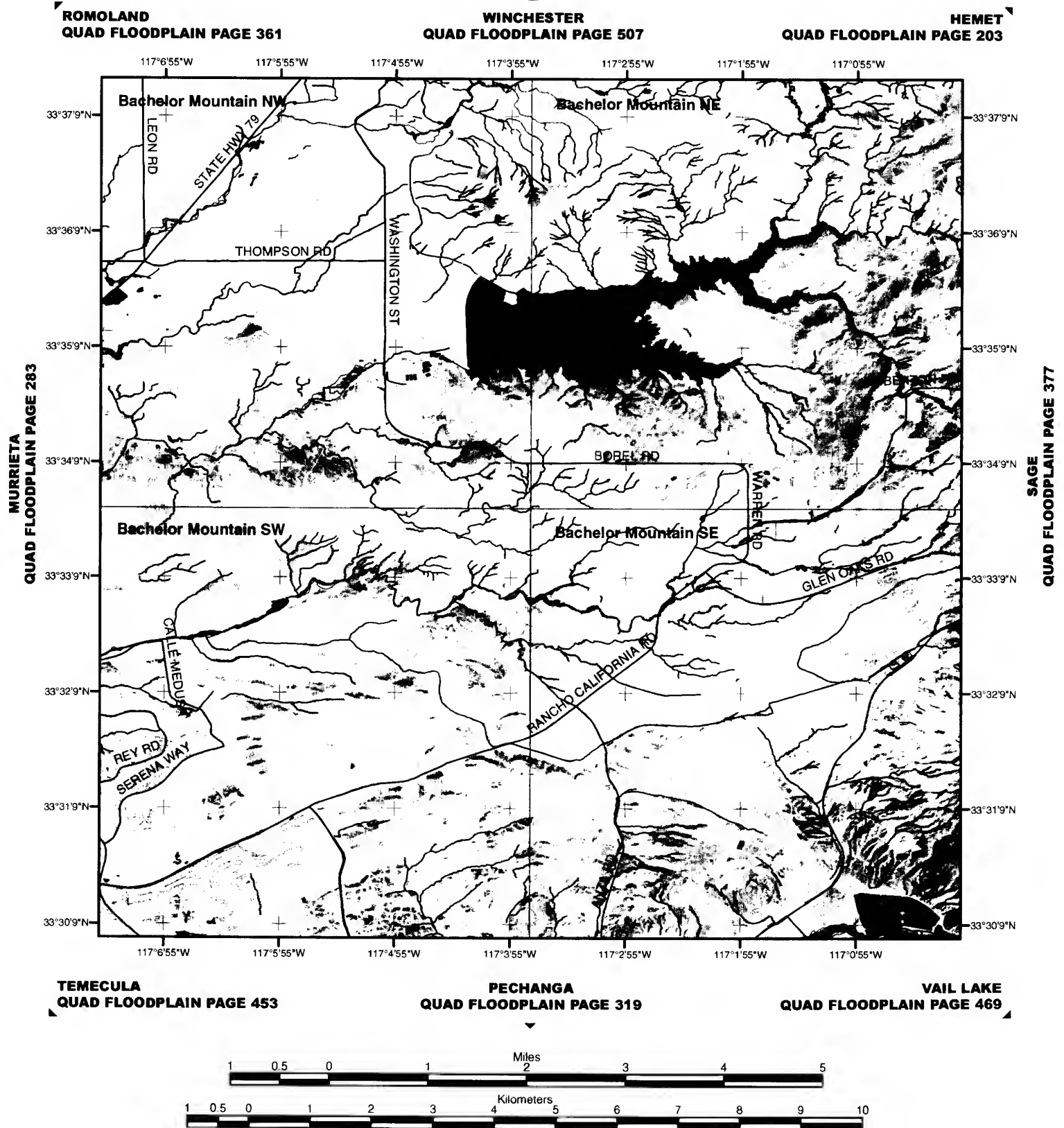


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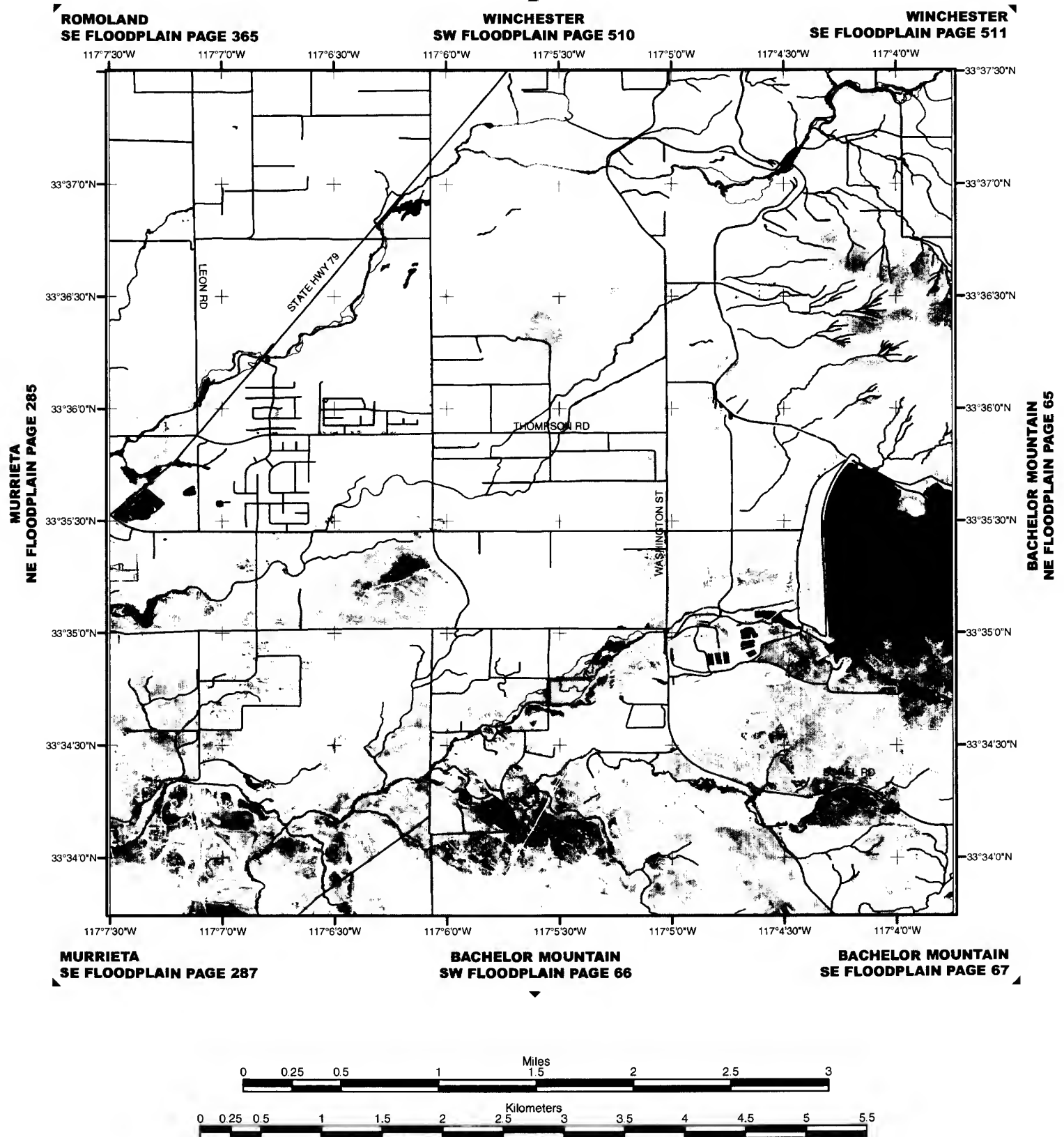


# Bachelor Mountain Quadrangle

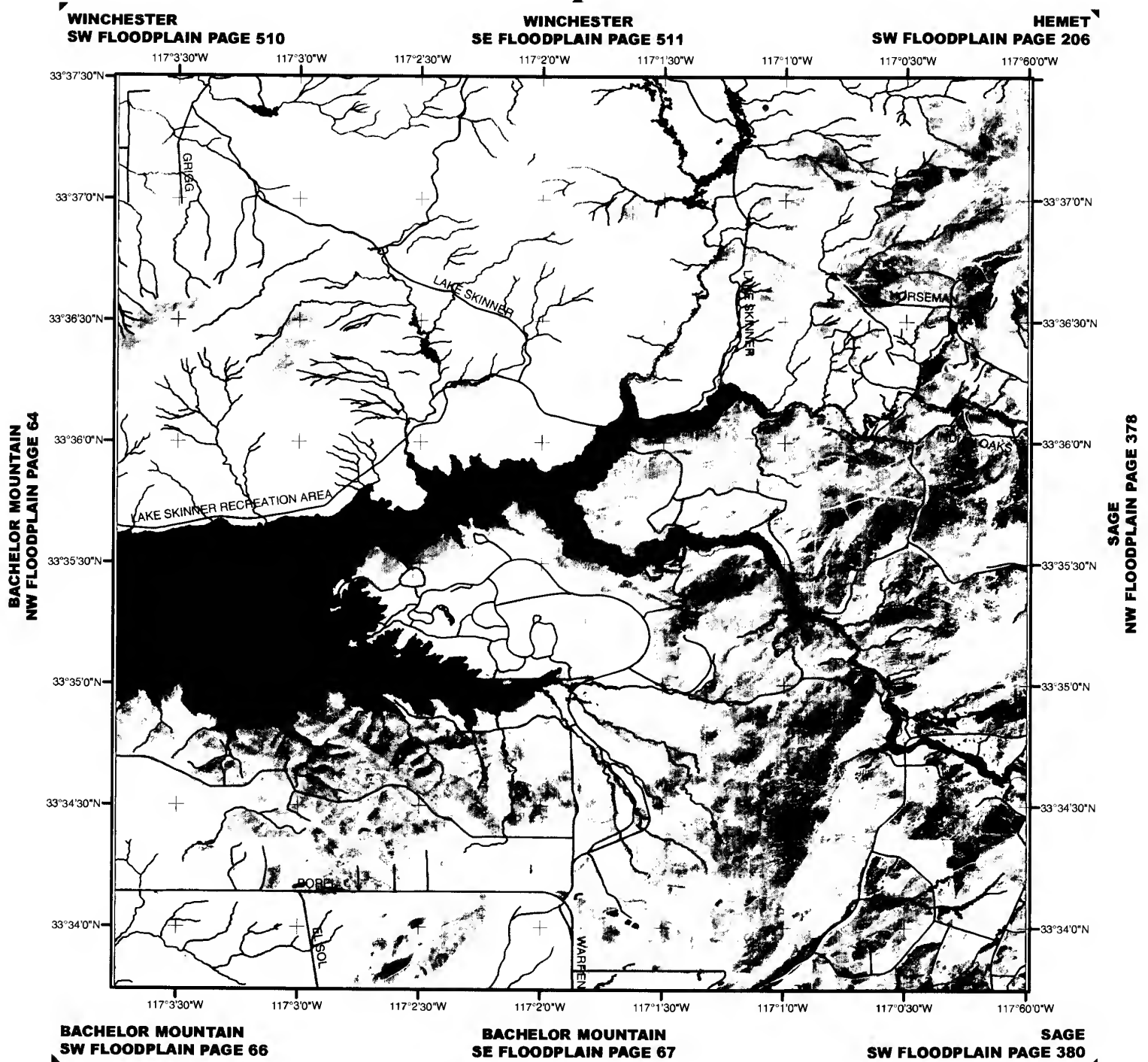
## Hydrogeomorphic Floodplain Units for Aquatic Resources



# Bachelor Mountain North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

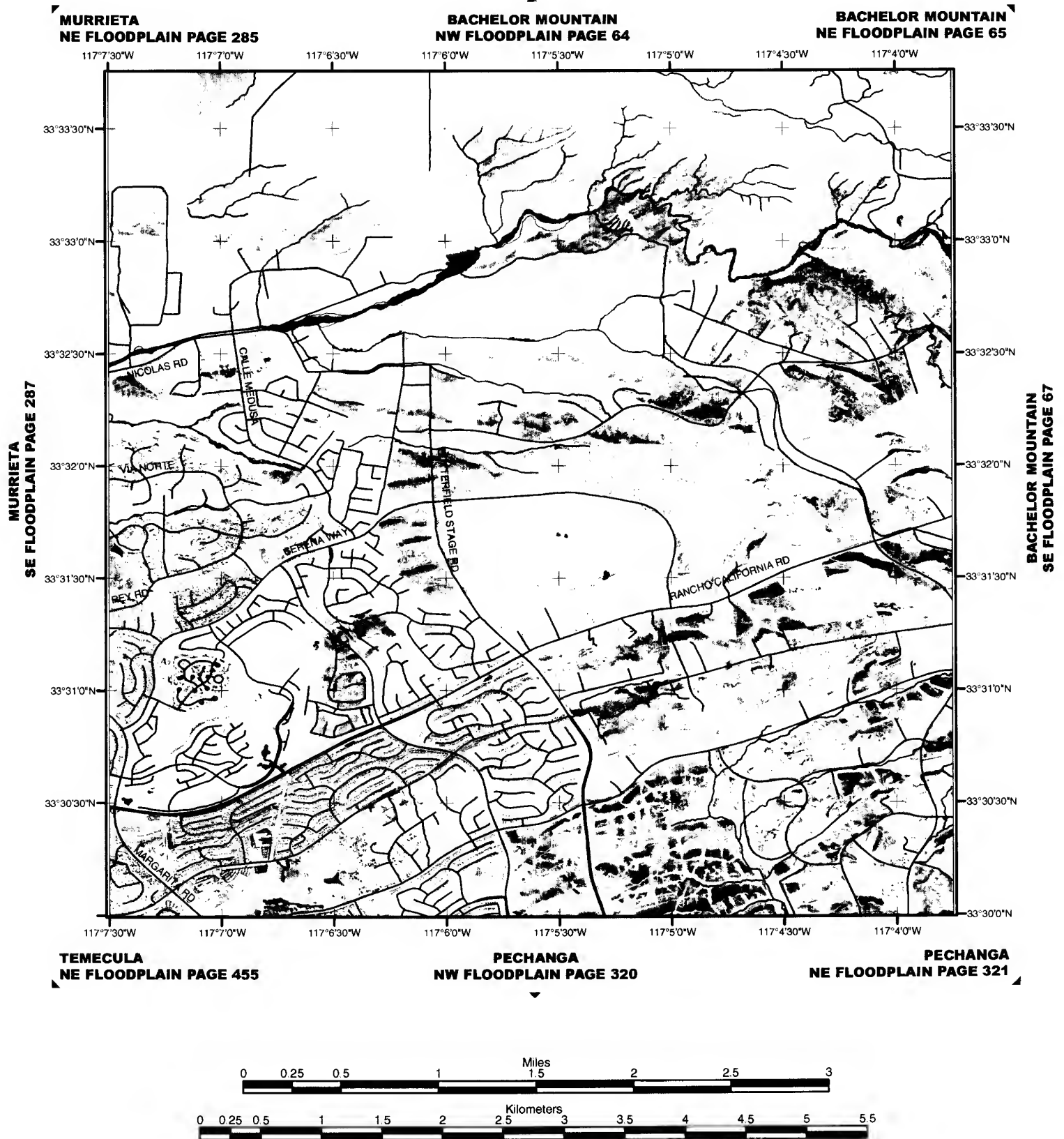


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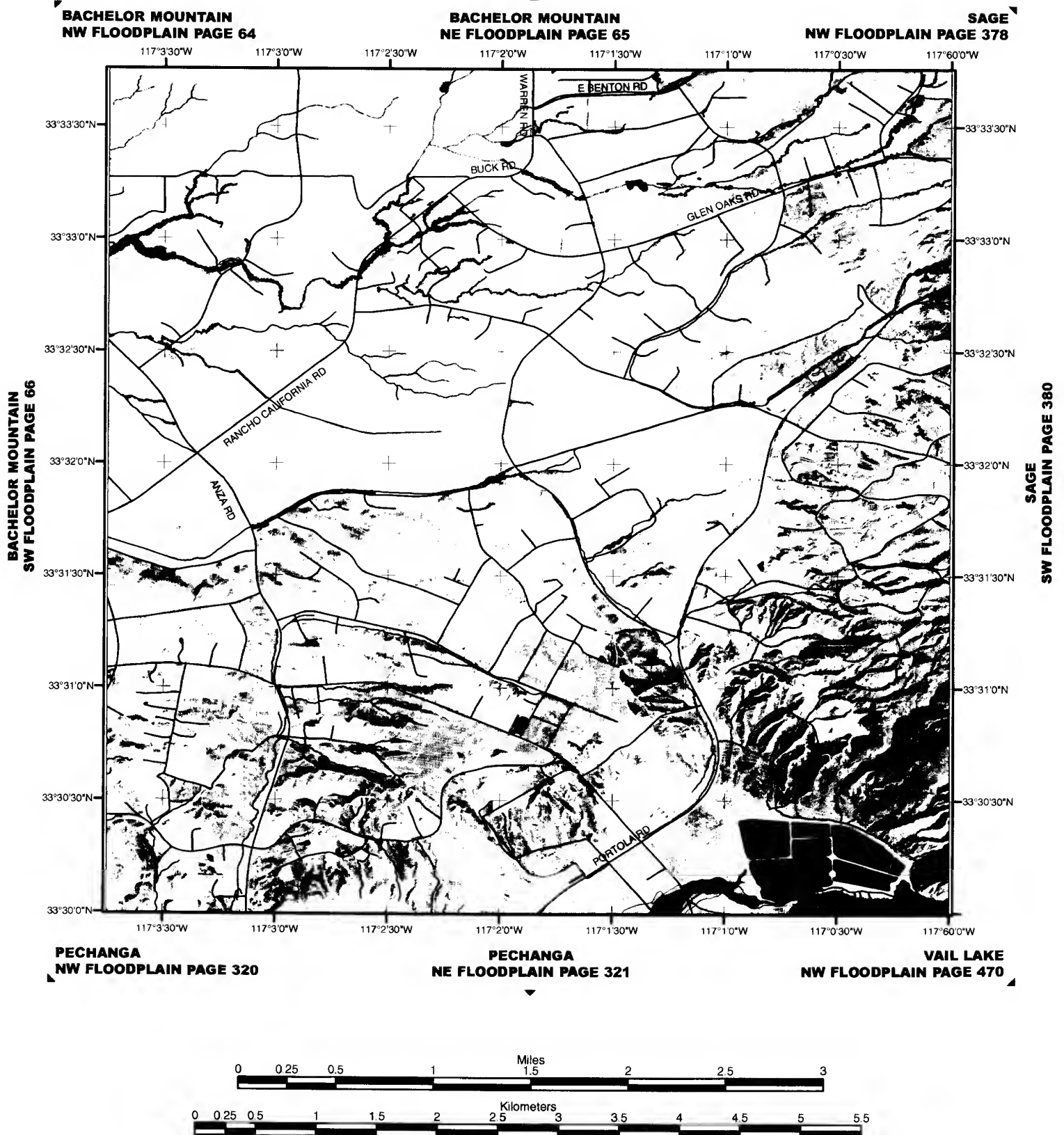




# Bachelor Mountain South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



# Bachelor Mountain South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

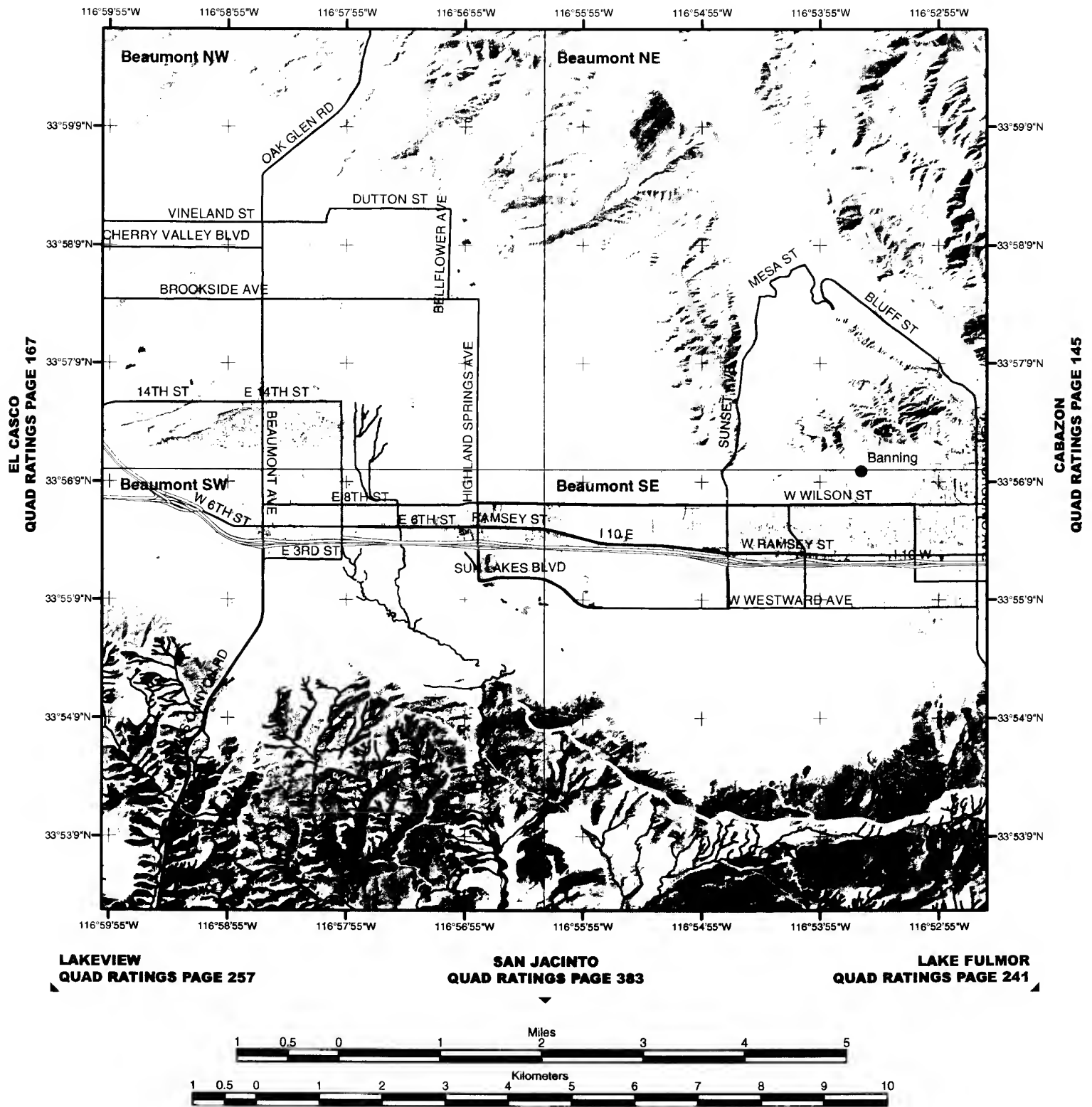




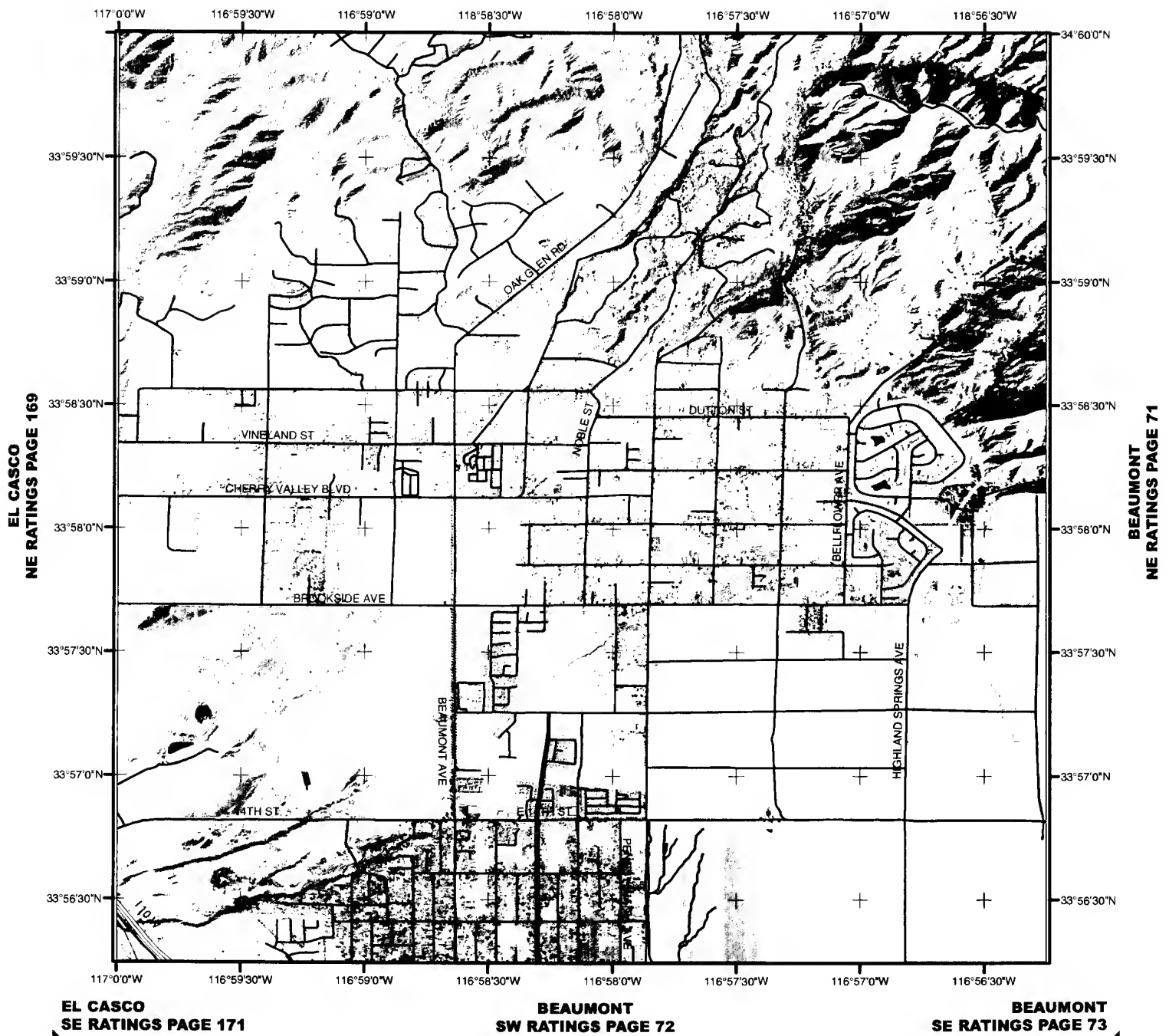


# Beaumont Quadrangle

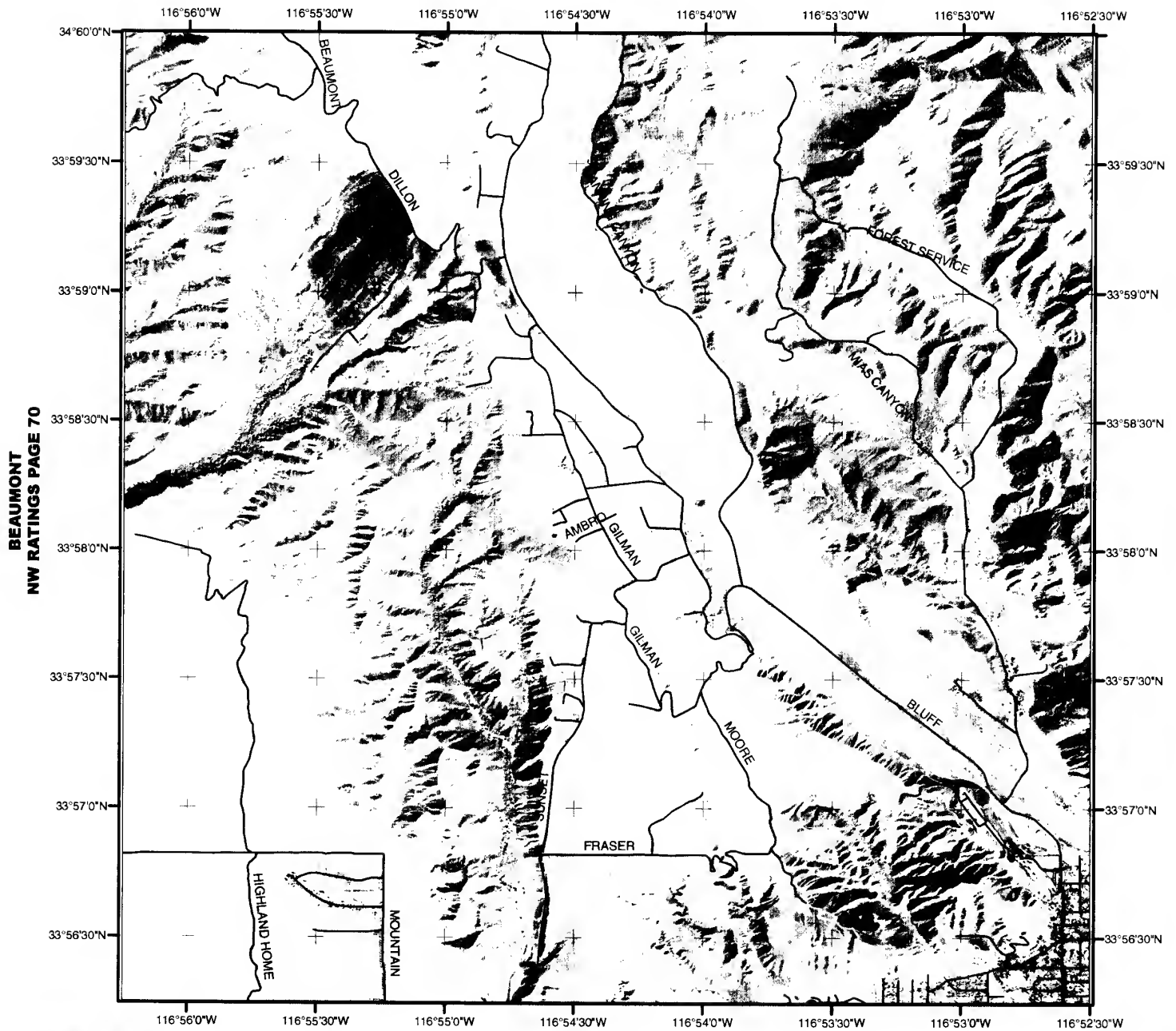
## Regulatory Probability Ratings for Aquatic Resources



# Beaumont North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



# Beaumont North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

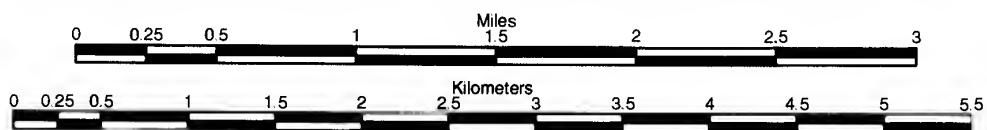


BEAUMONT  
NW RATINGS PAGE 70

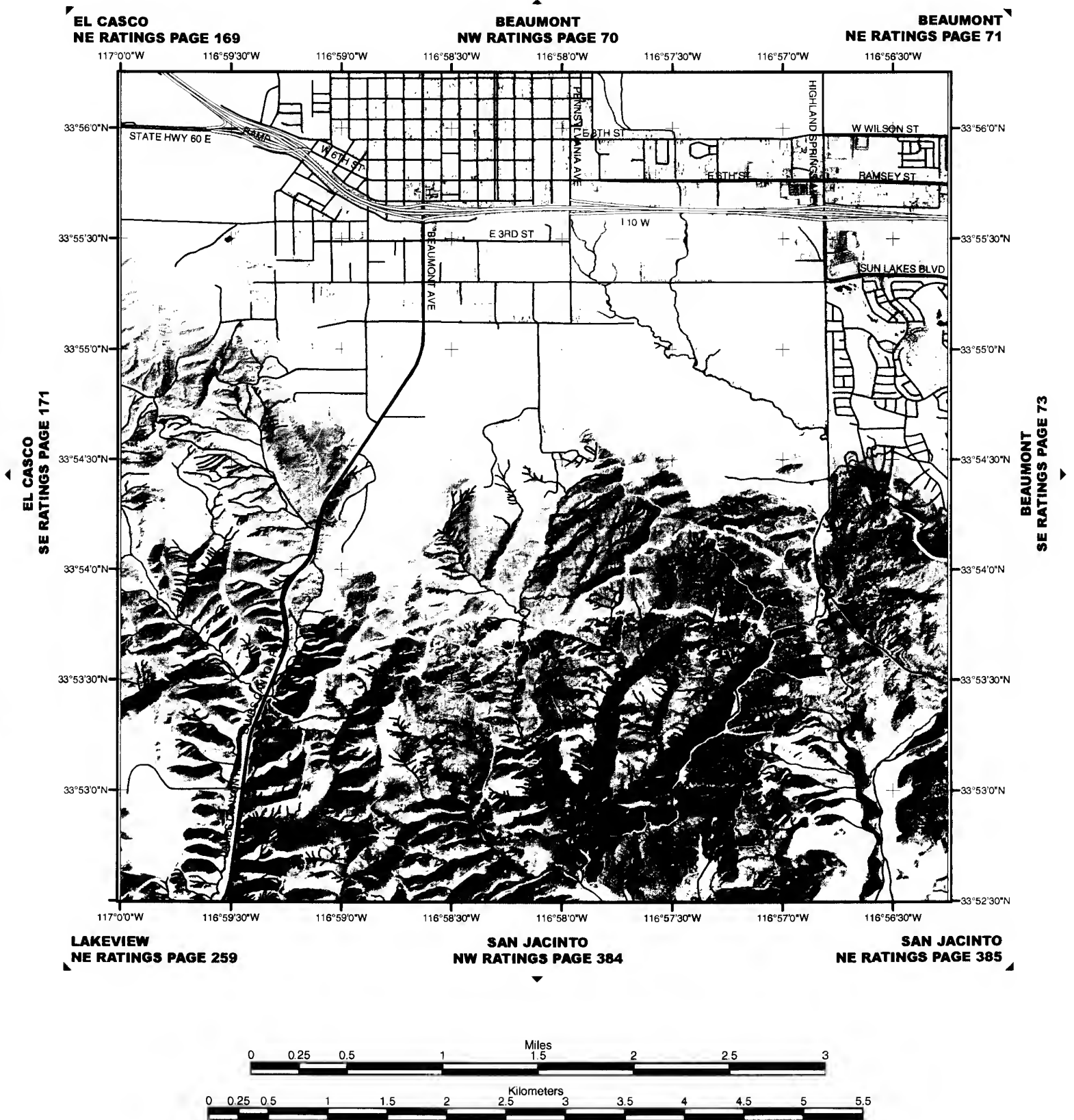
BEAUMONT  
SW RATINGS PAGE 72

BEAUMONT  
SE RATINGS PAGE 73

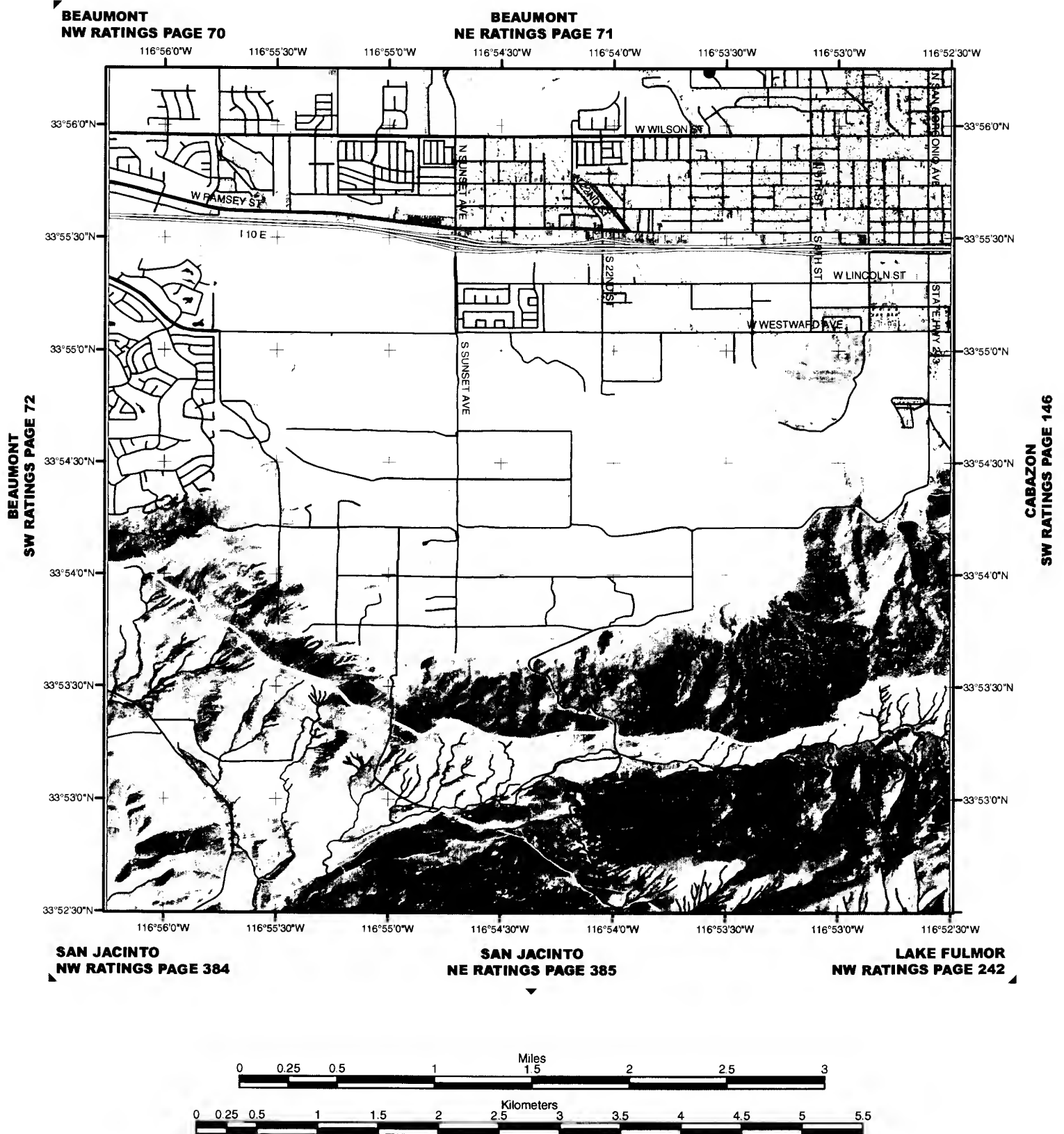
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SW RATINGS PAGE 146



# Beaumont South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

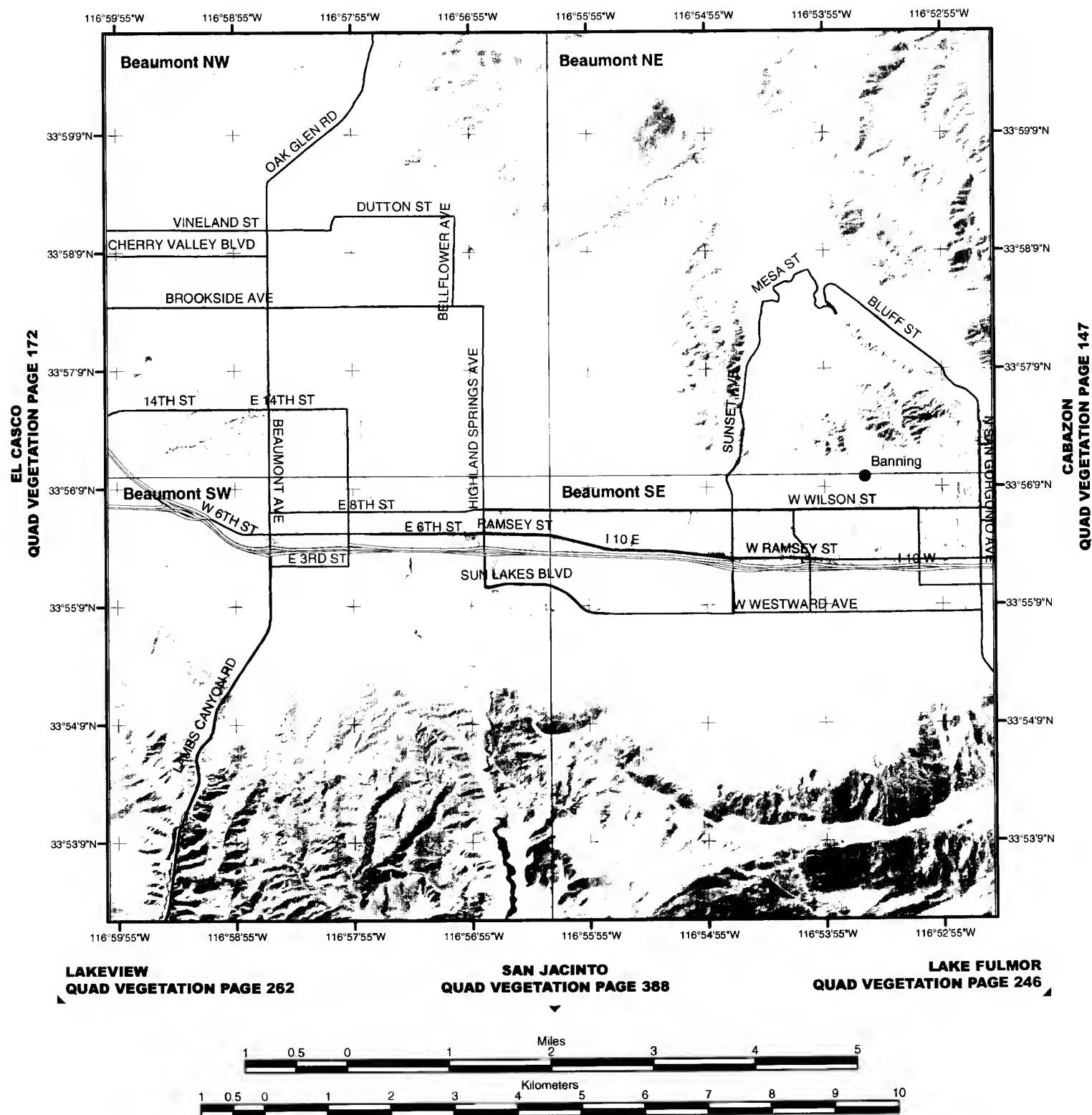


# Beaumont South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

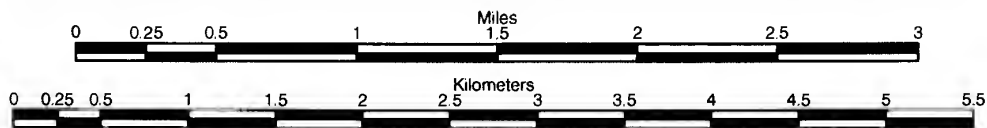
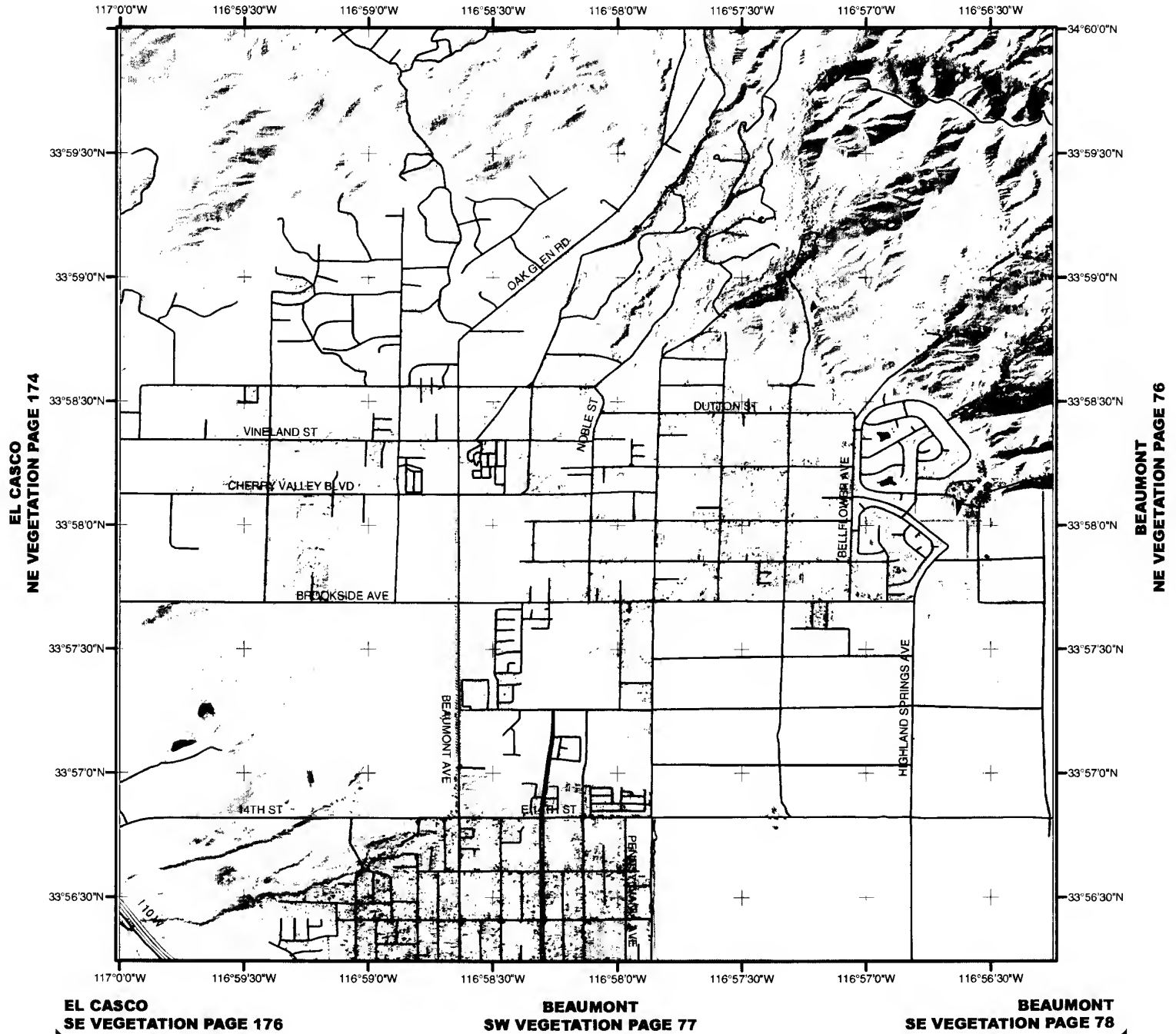


# Beaumont Quadrangle

## Vegetation Species Association Units for Aquatic Resources

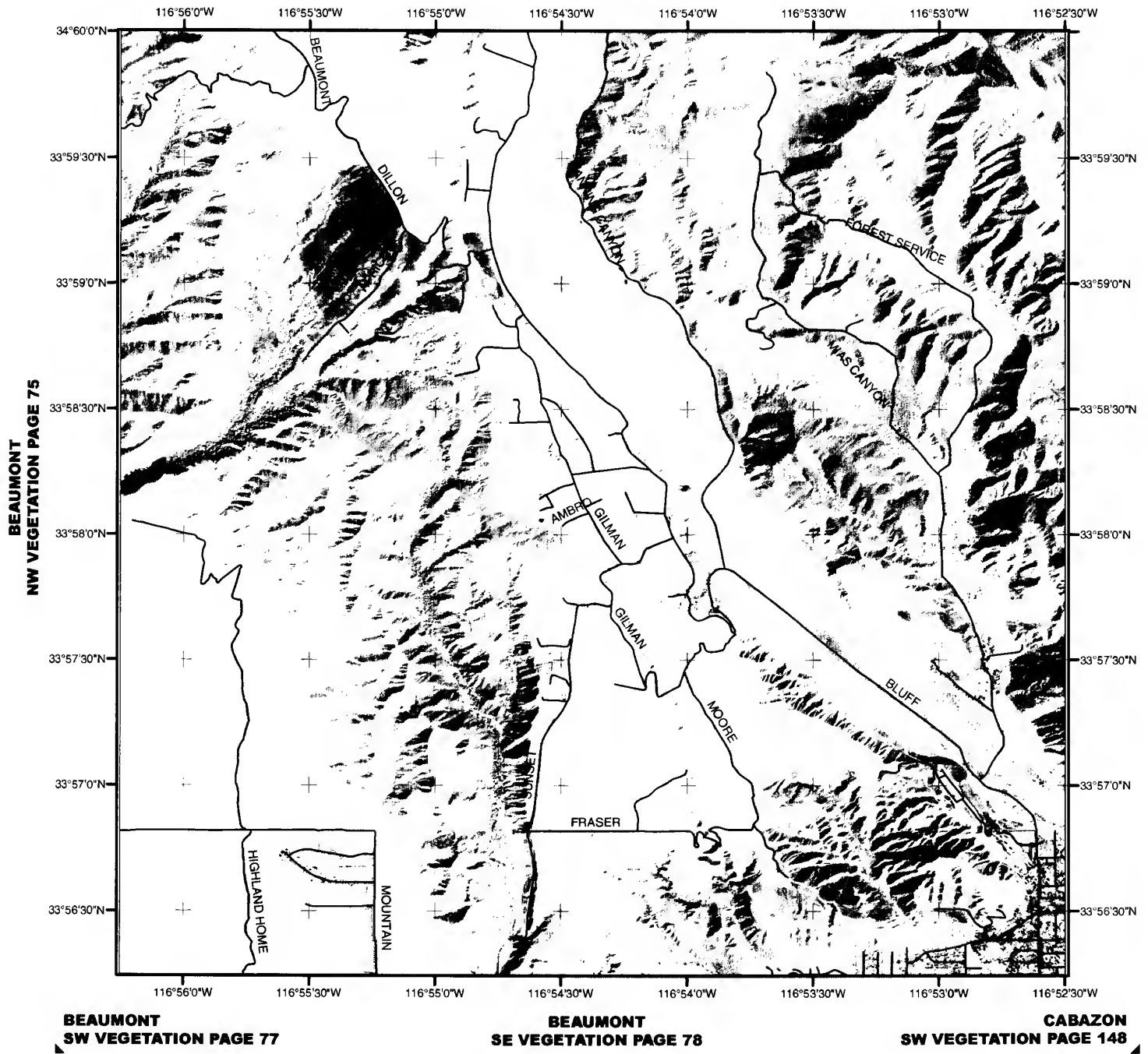


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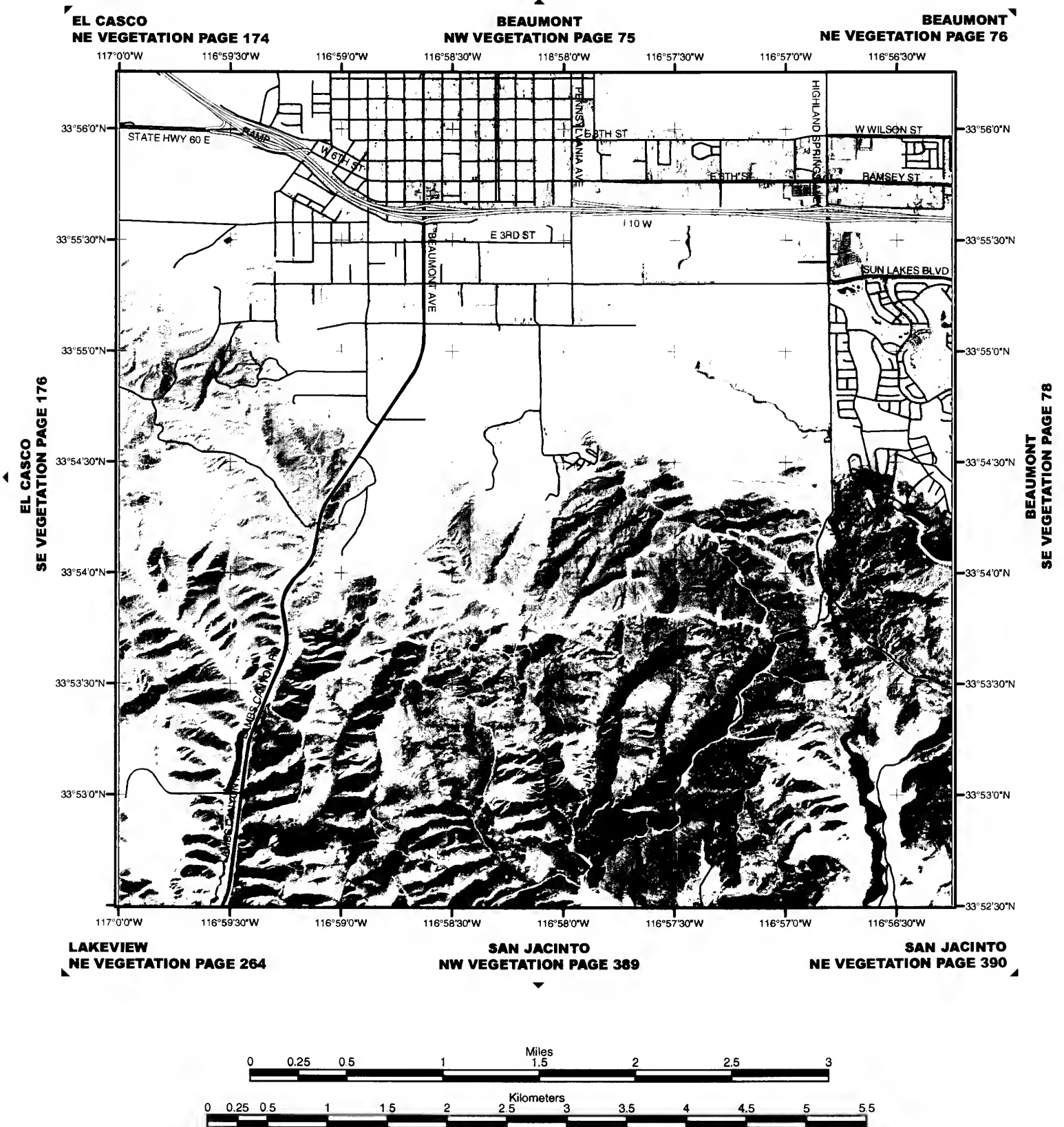




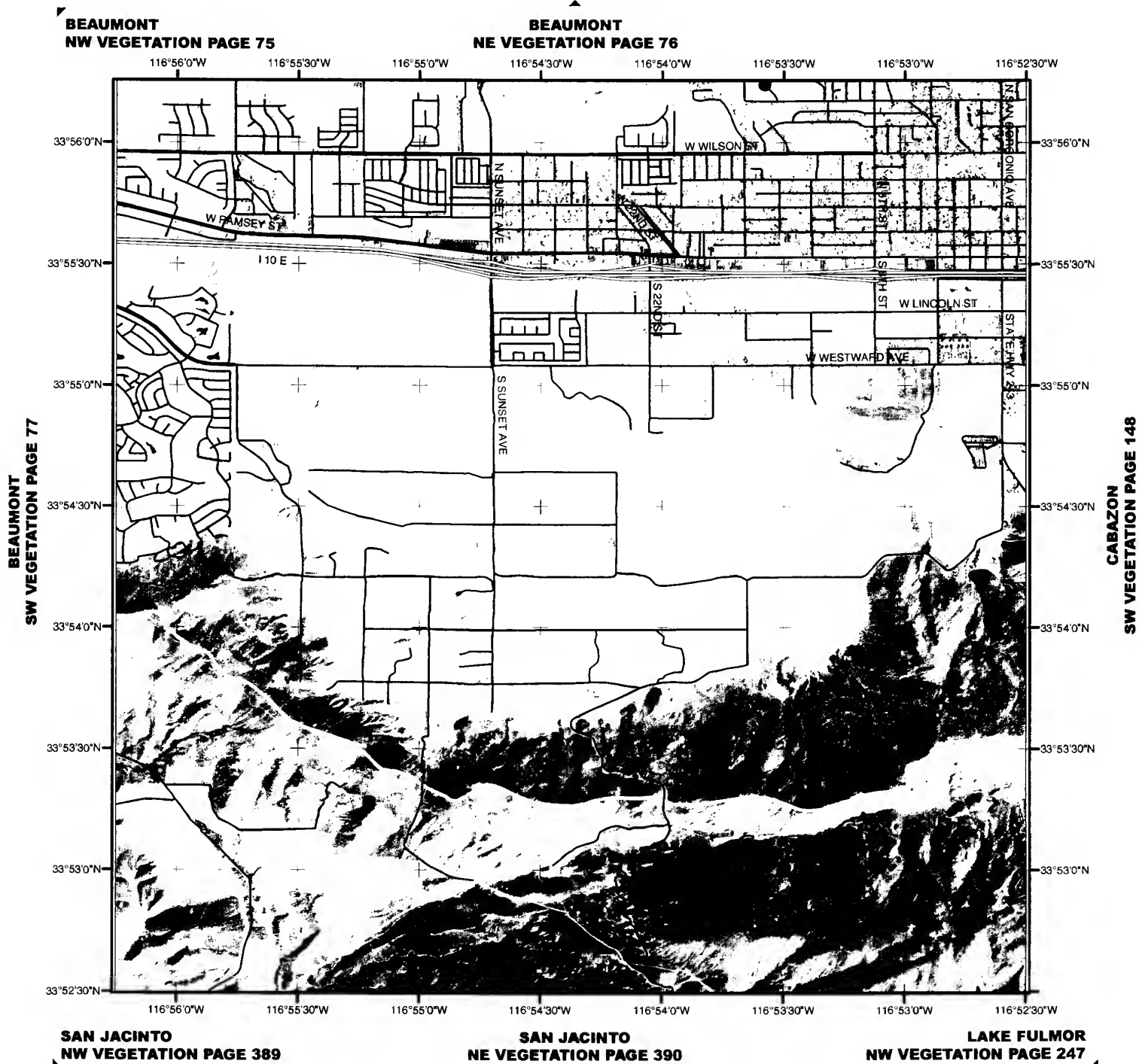
# Beaumont North East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



# Beaumont South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

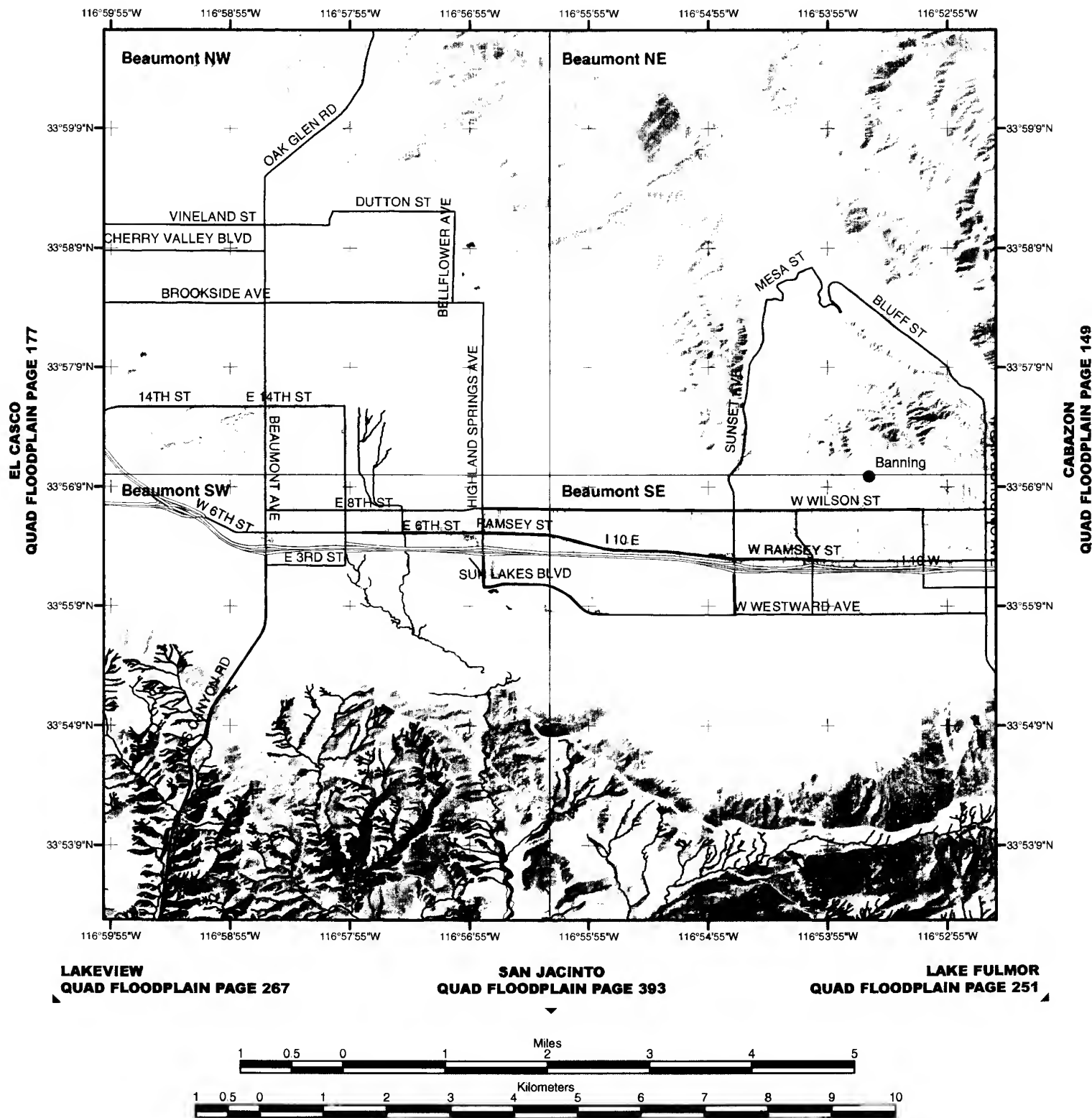


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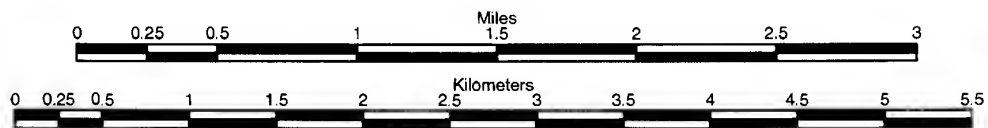
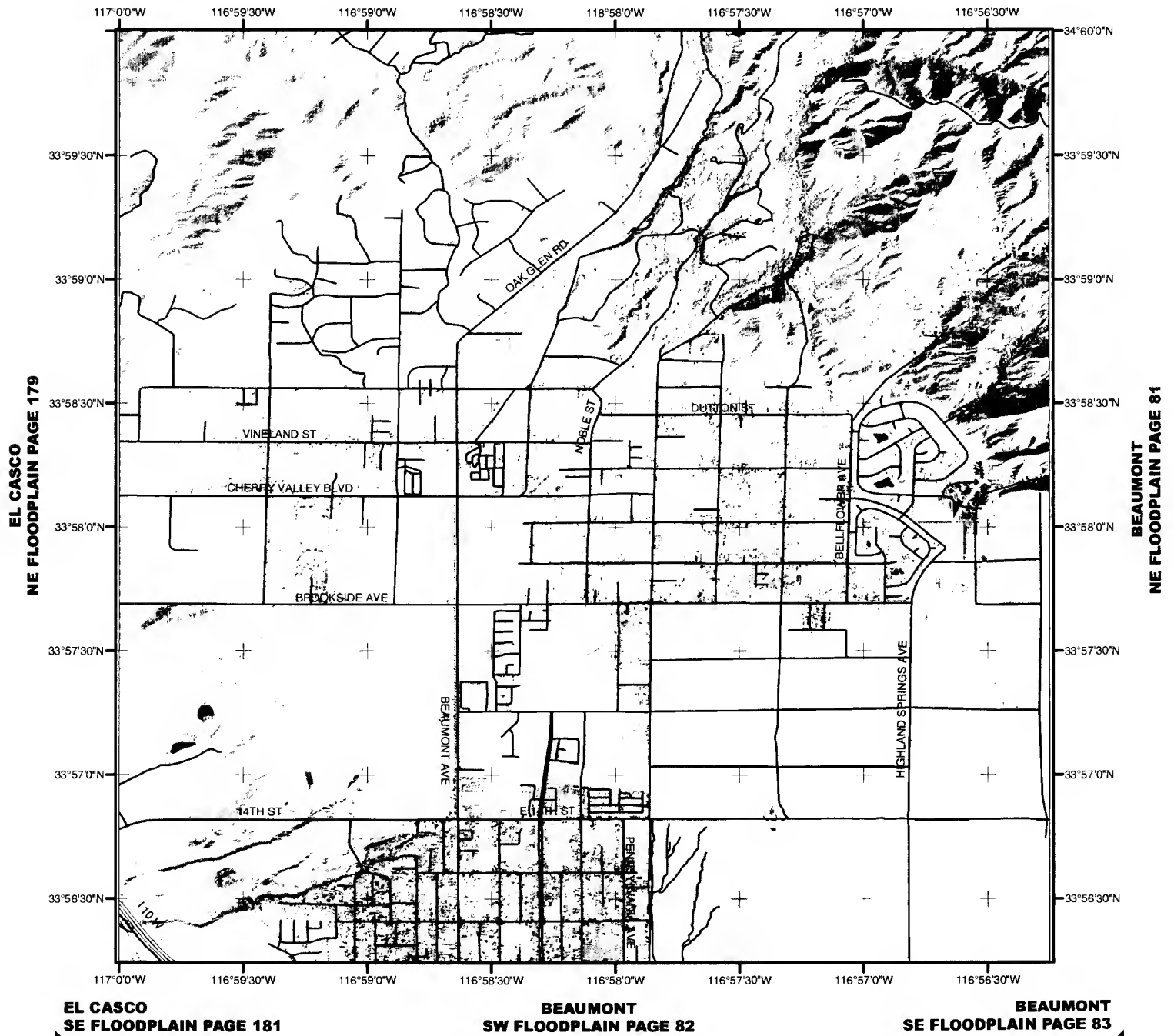


# Beaumont Quadrangle

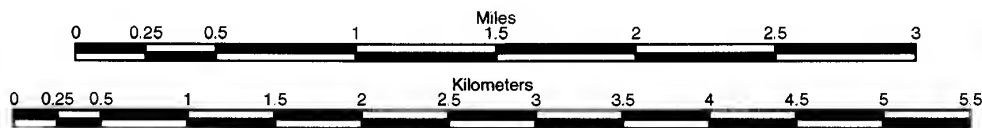
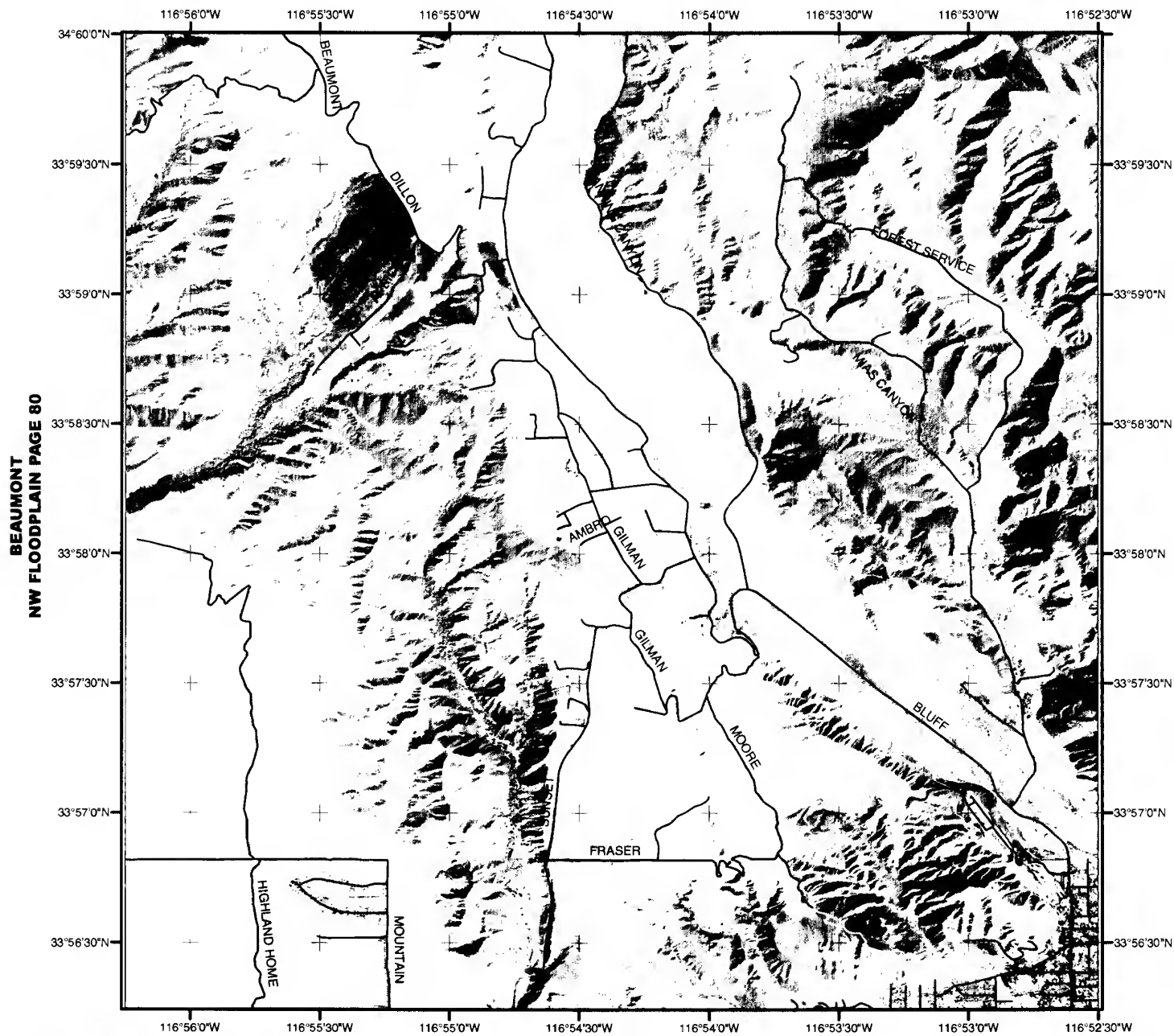
## Hydrogeomorphic Floodplain Units for Aquatic Resources



# Beaumont North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

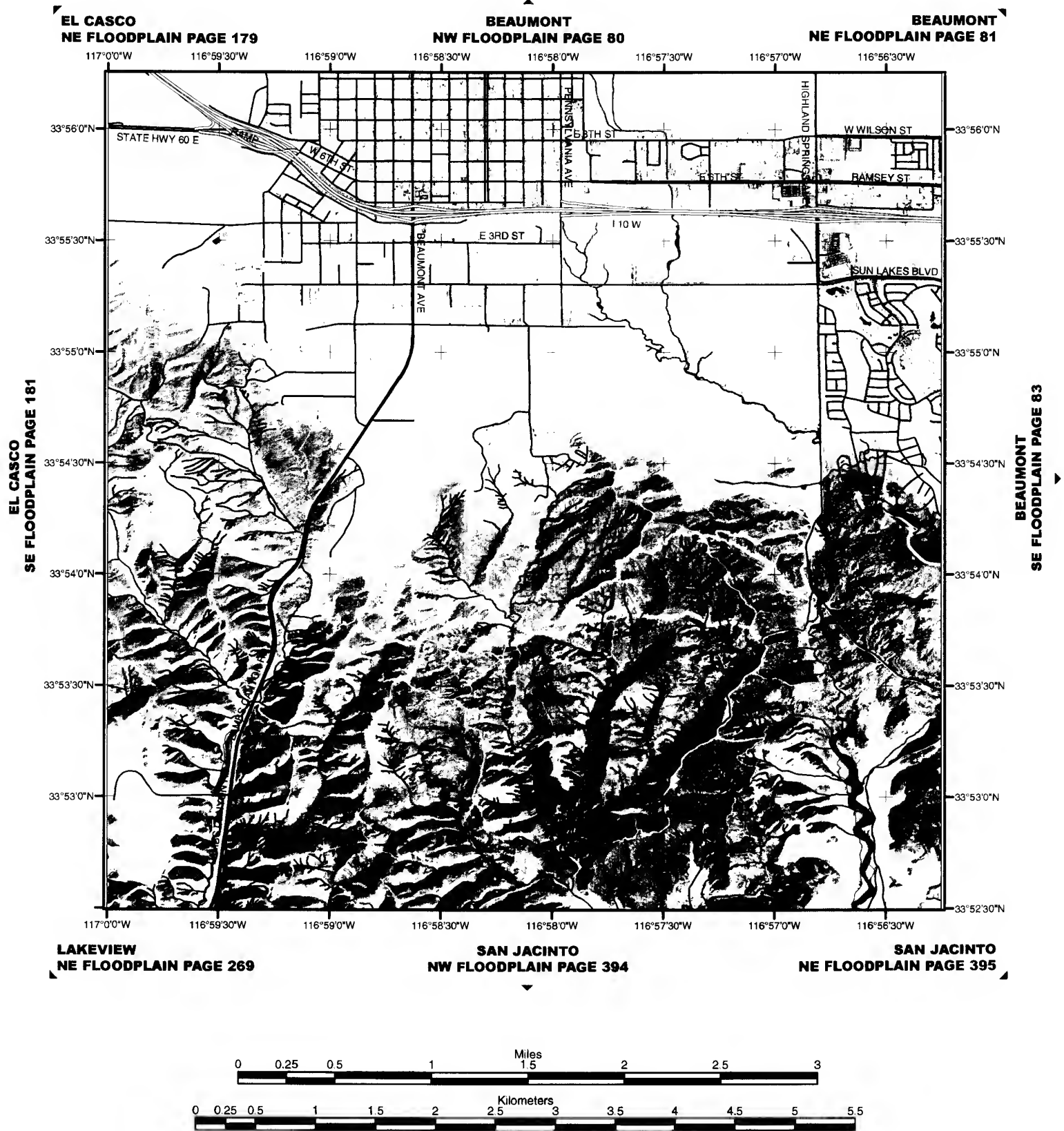


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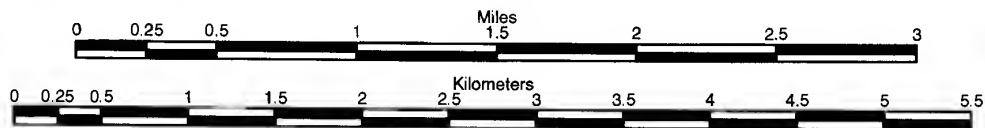
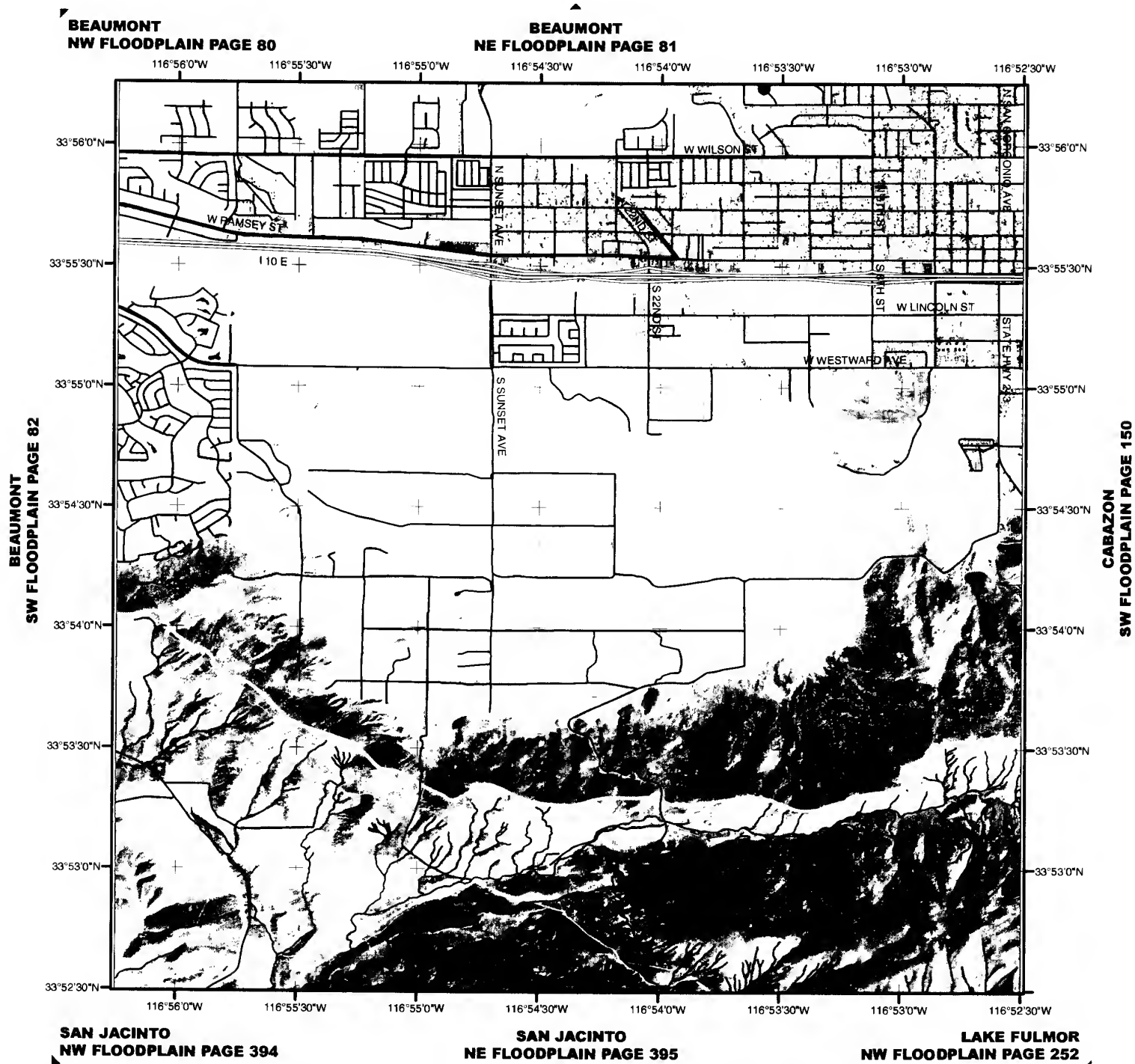




# Beaumont South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



## Beaumont South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

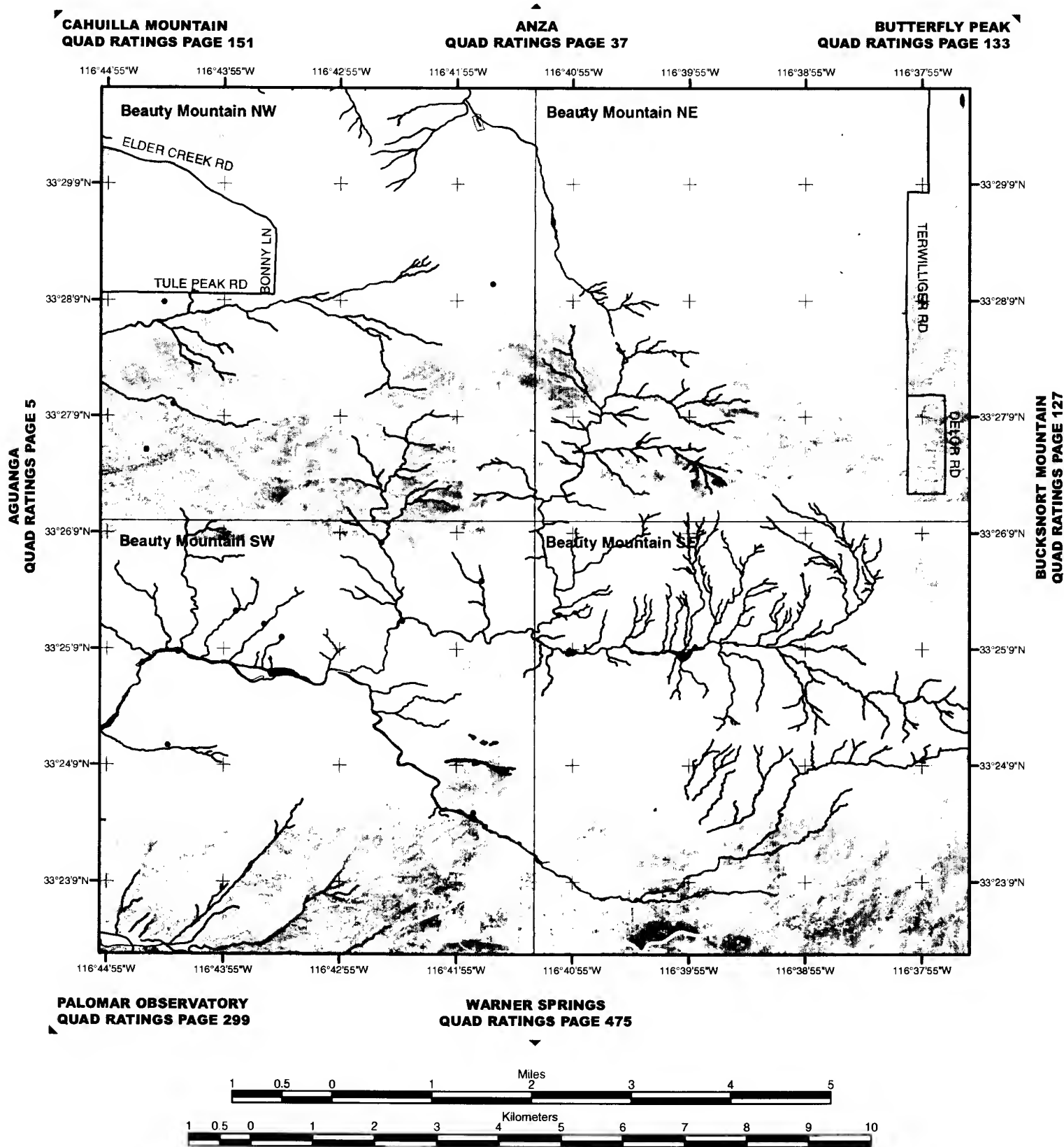




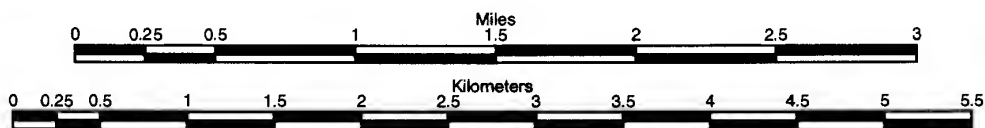
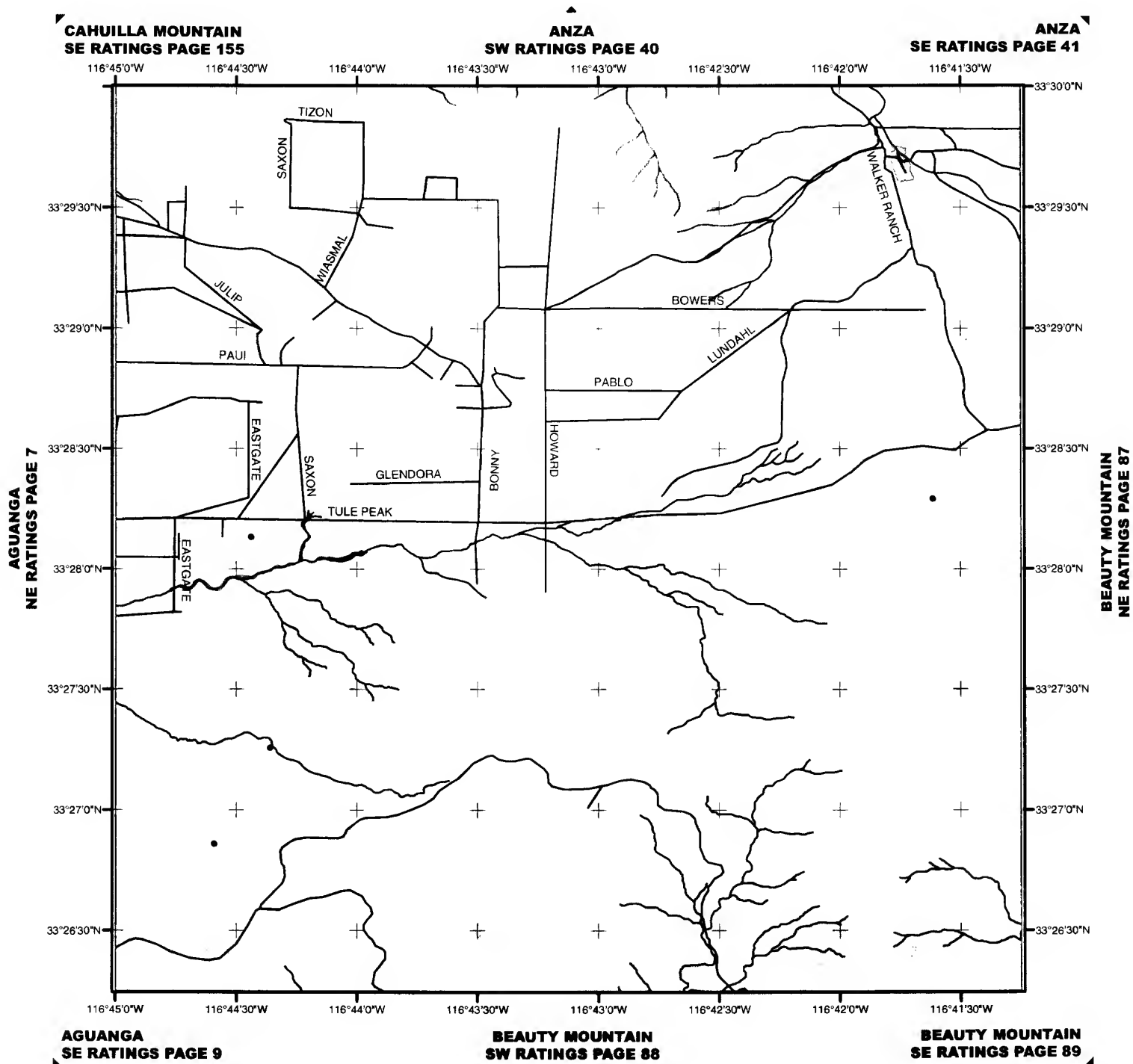


# Beauty Mountain Quadrangle

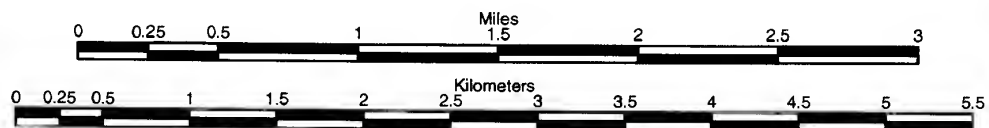
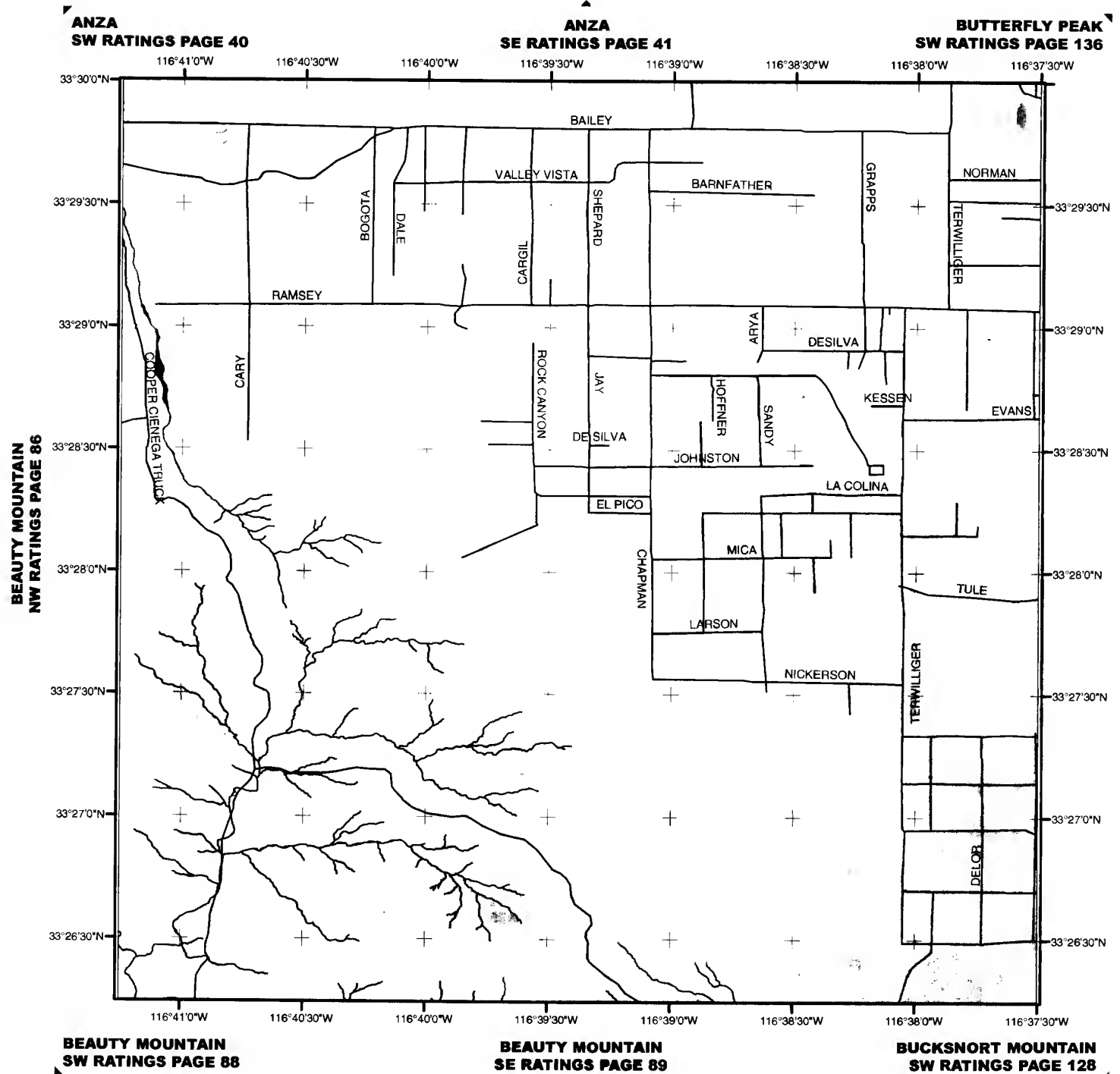
## Regulatory Probability Ratings for Aquatic Resources



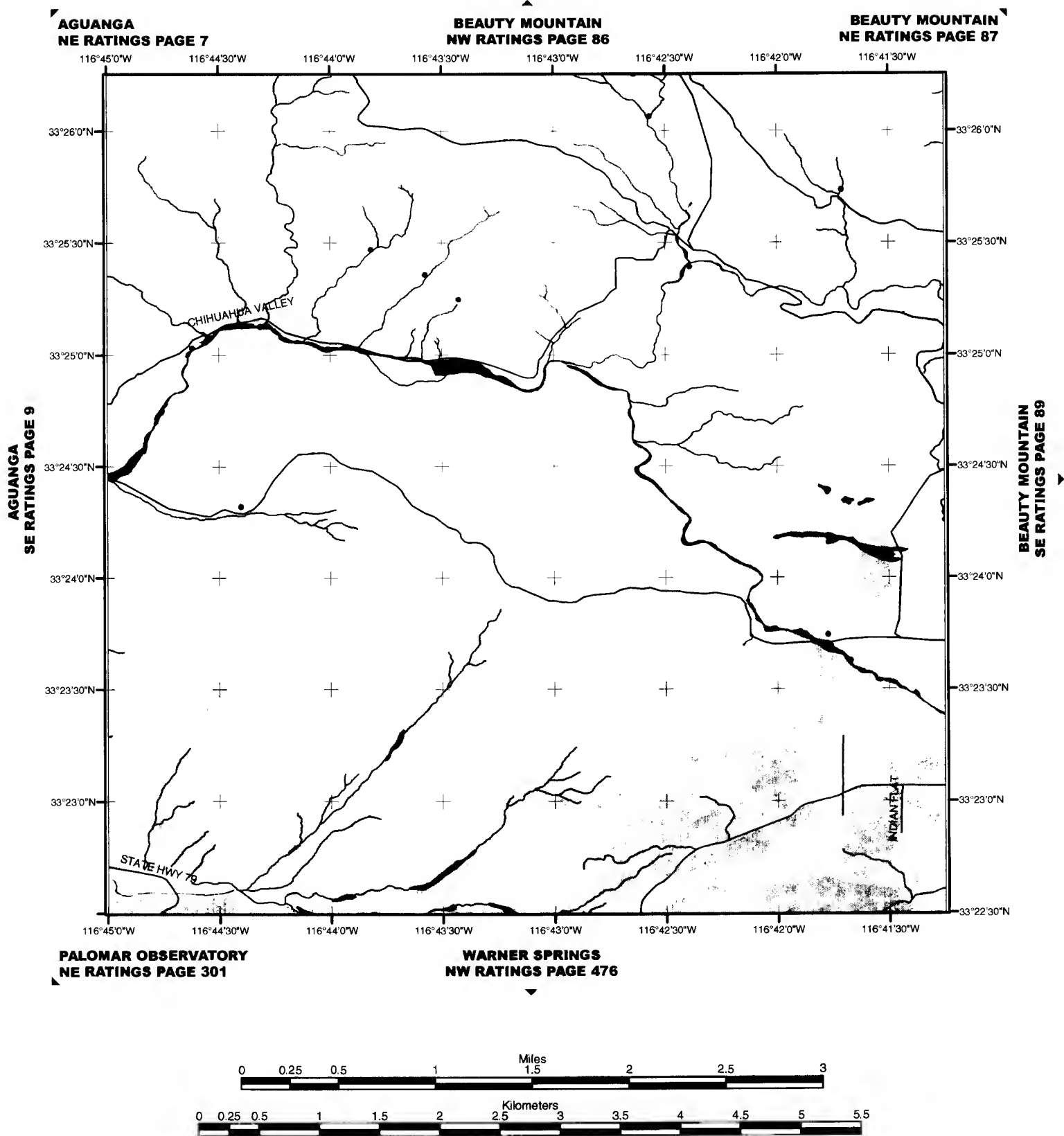
# Beauty Mountain North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



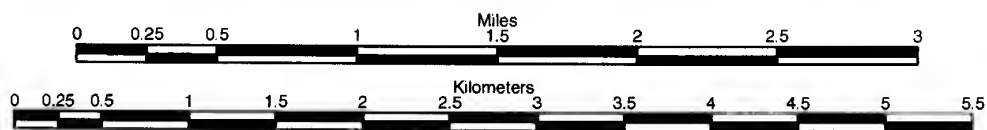
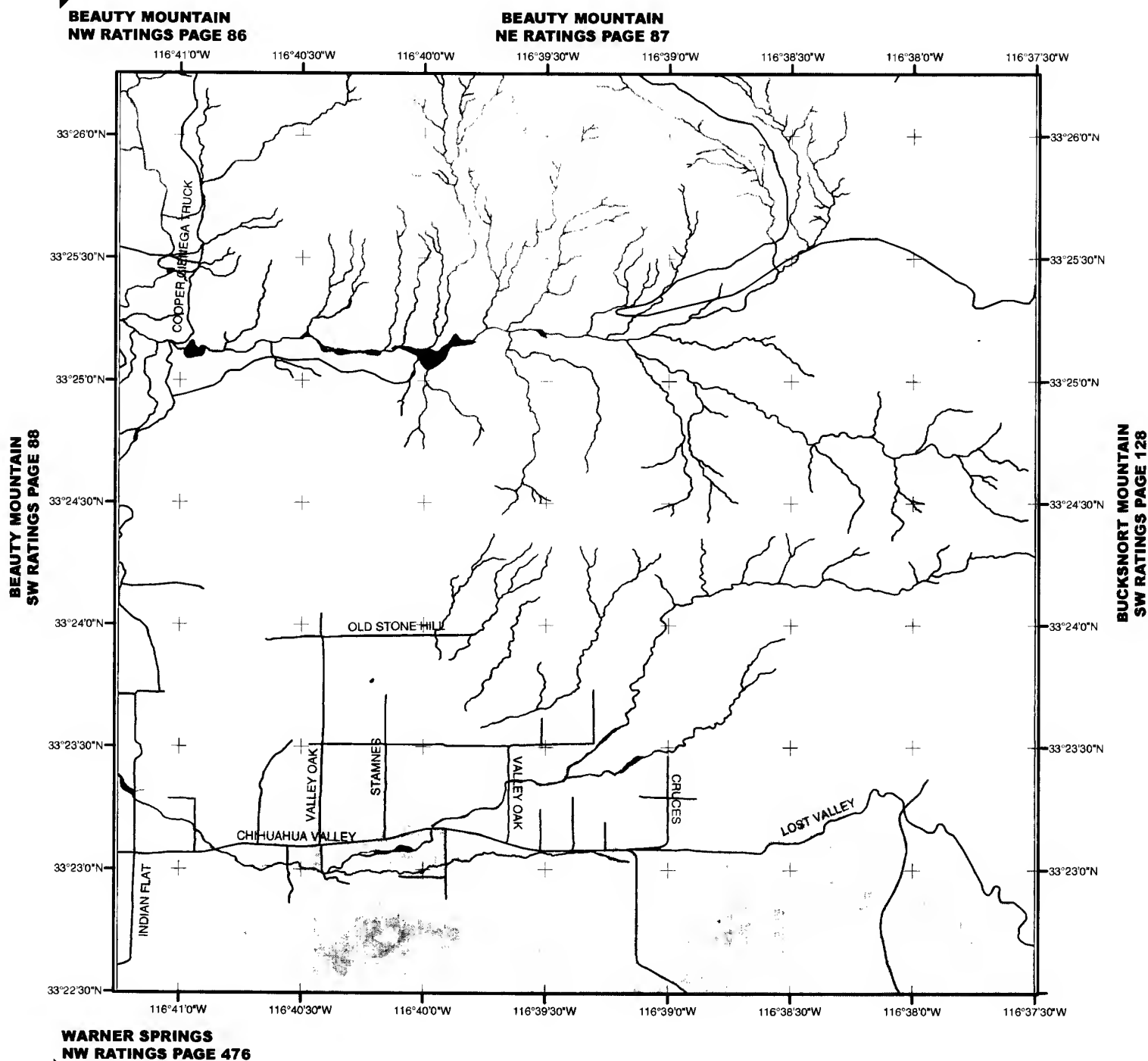
# Beauty Mountain North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



# Beauty Mountain South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

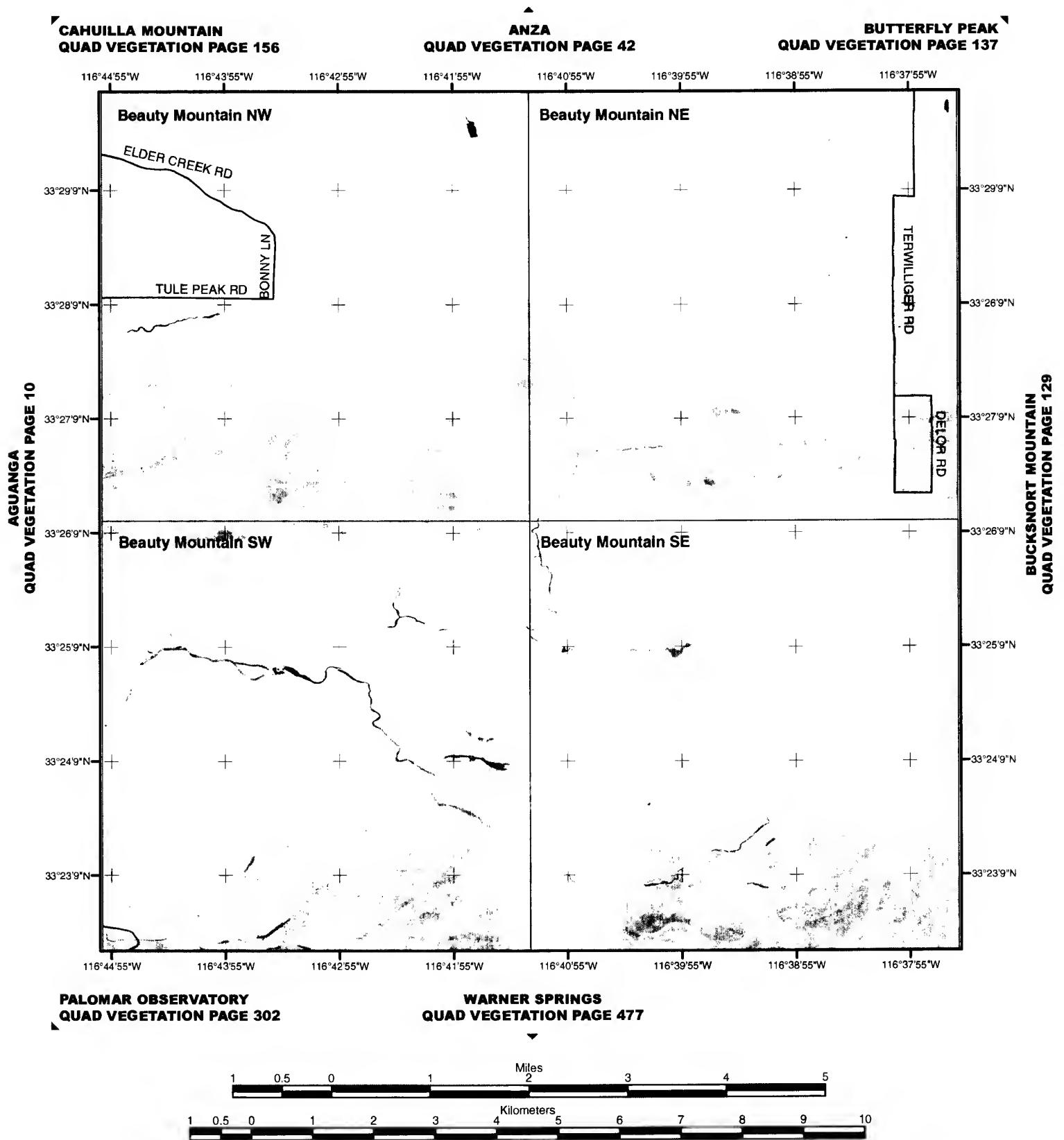


# Beauty Mountain South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

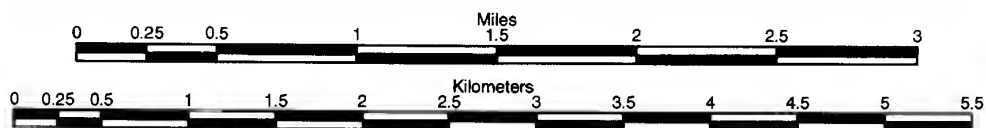
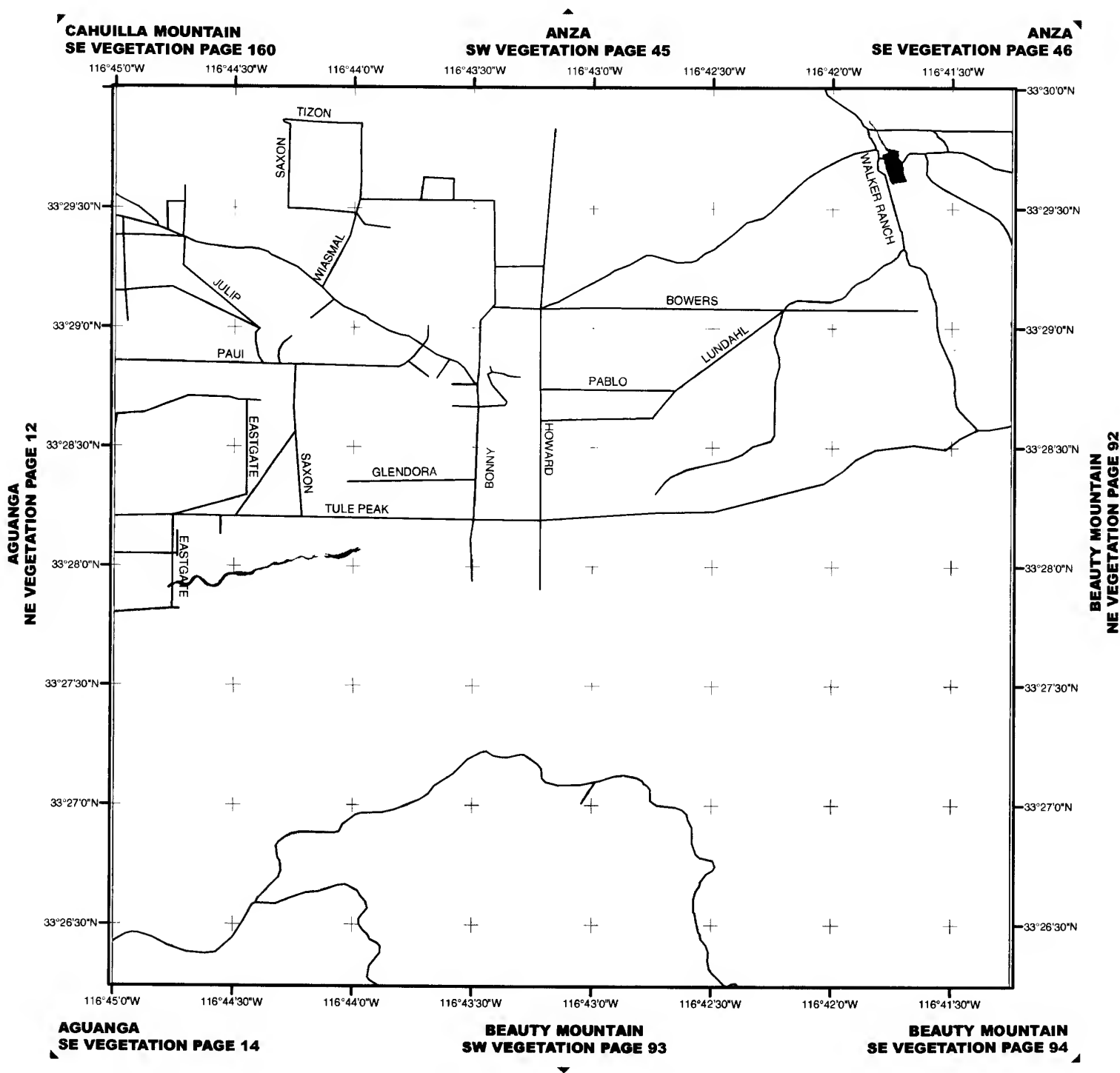


# Beauty Mountain Quadrangle

## Vegetation Species Association Units for Aquatic Resources

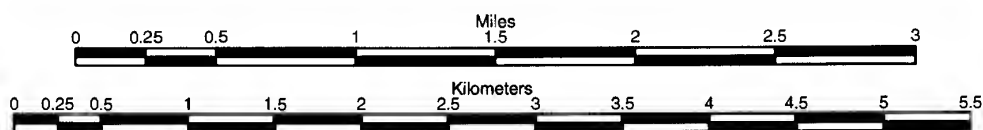
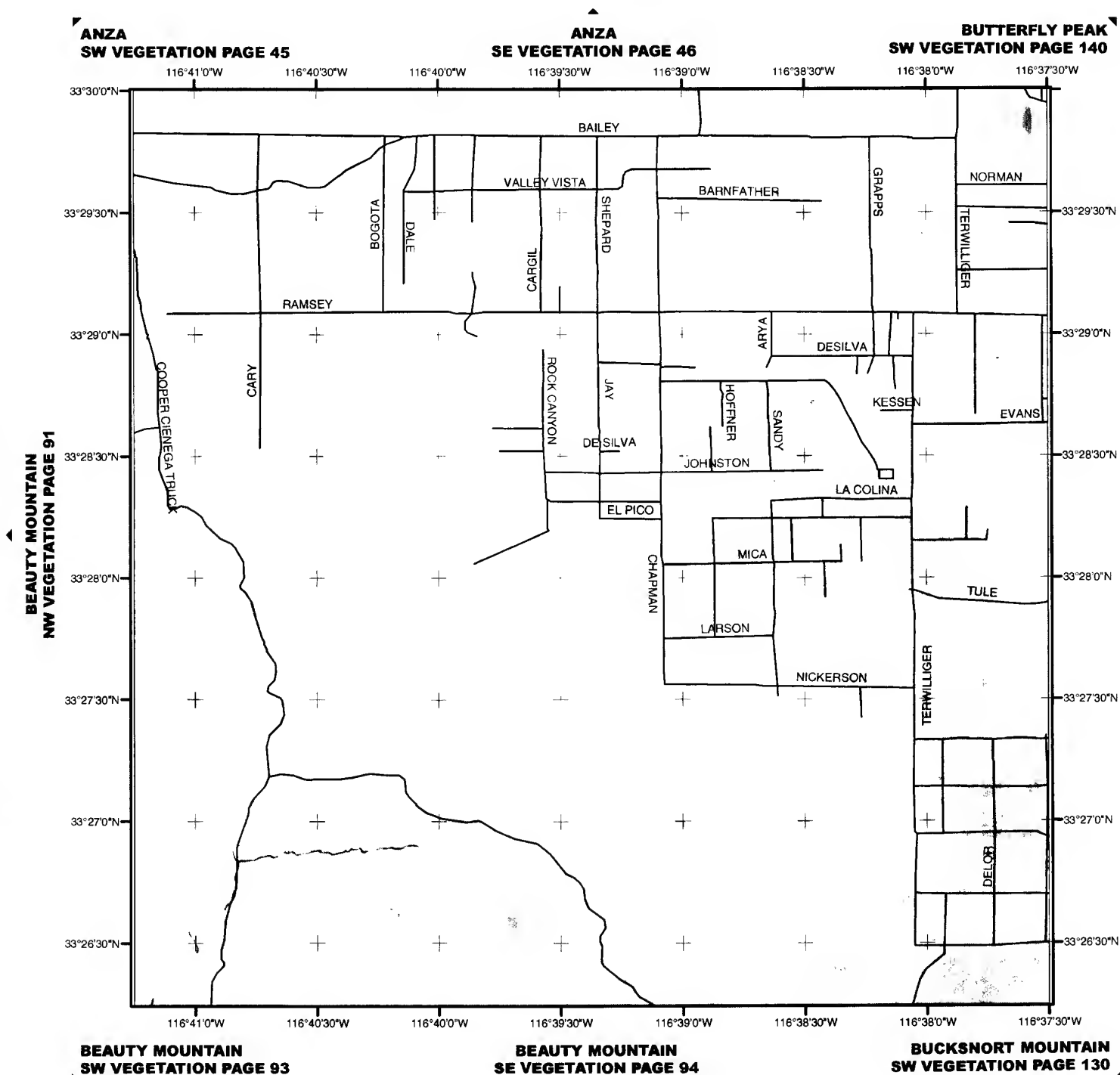


# Beauty Mountain North West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

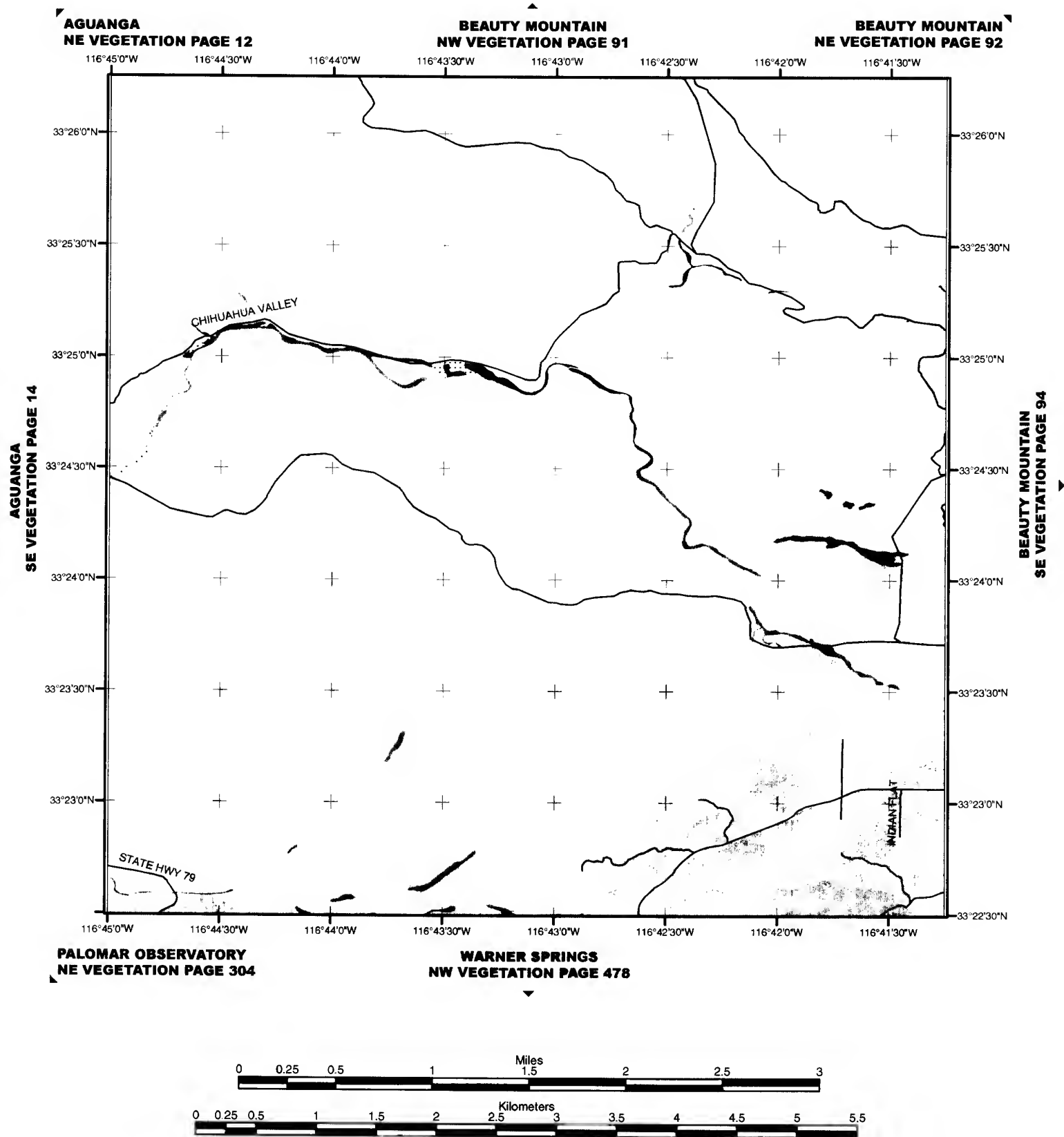




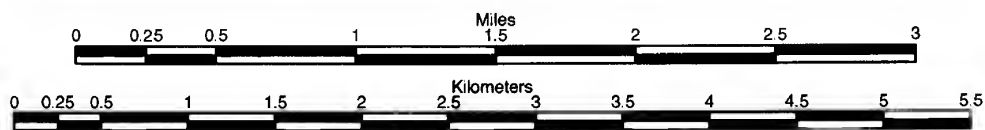
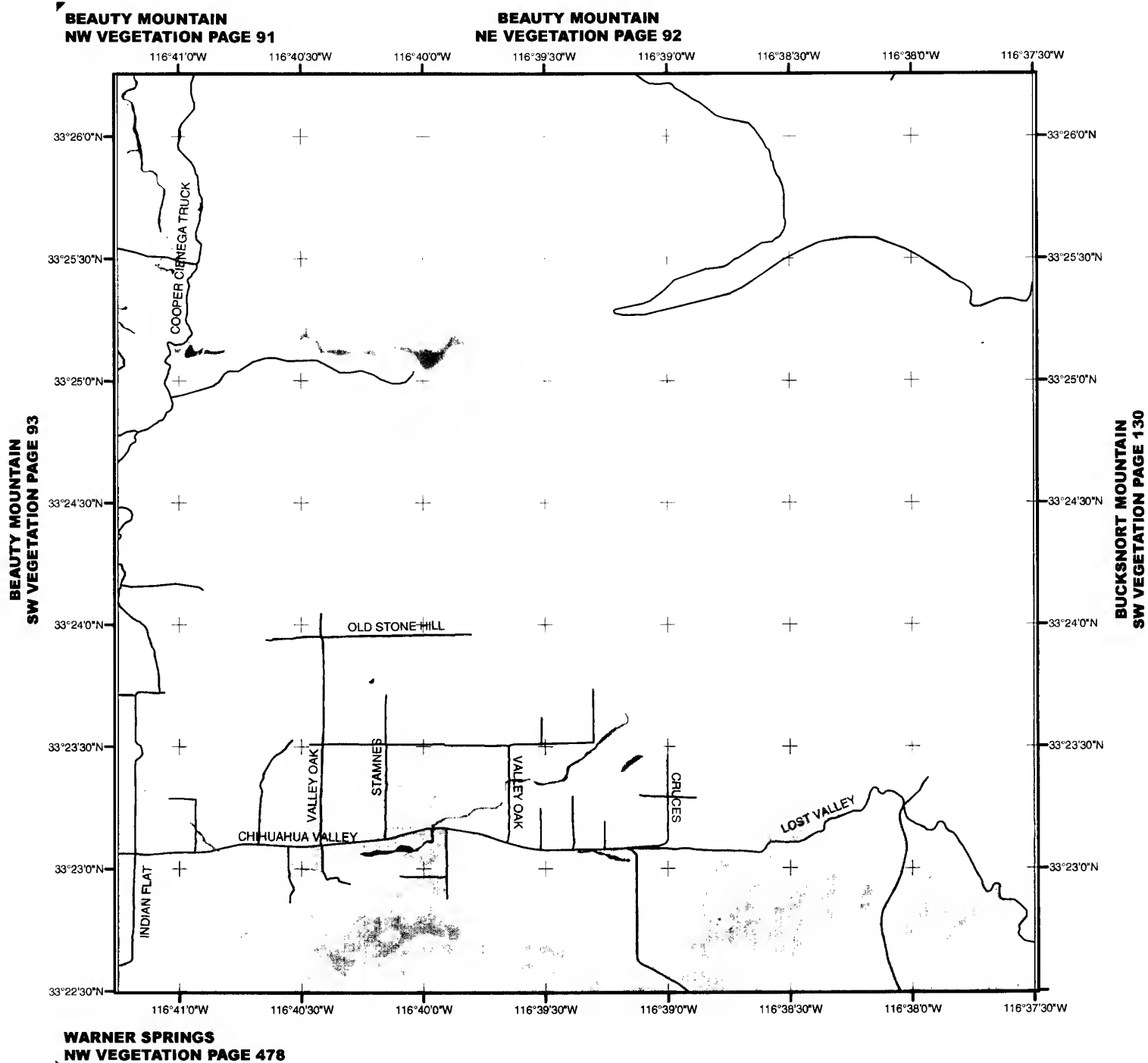
# Beauty Mountain North East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



# Beauty Mountain South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

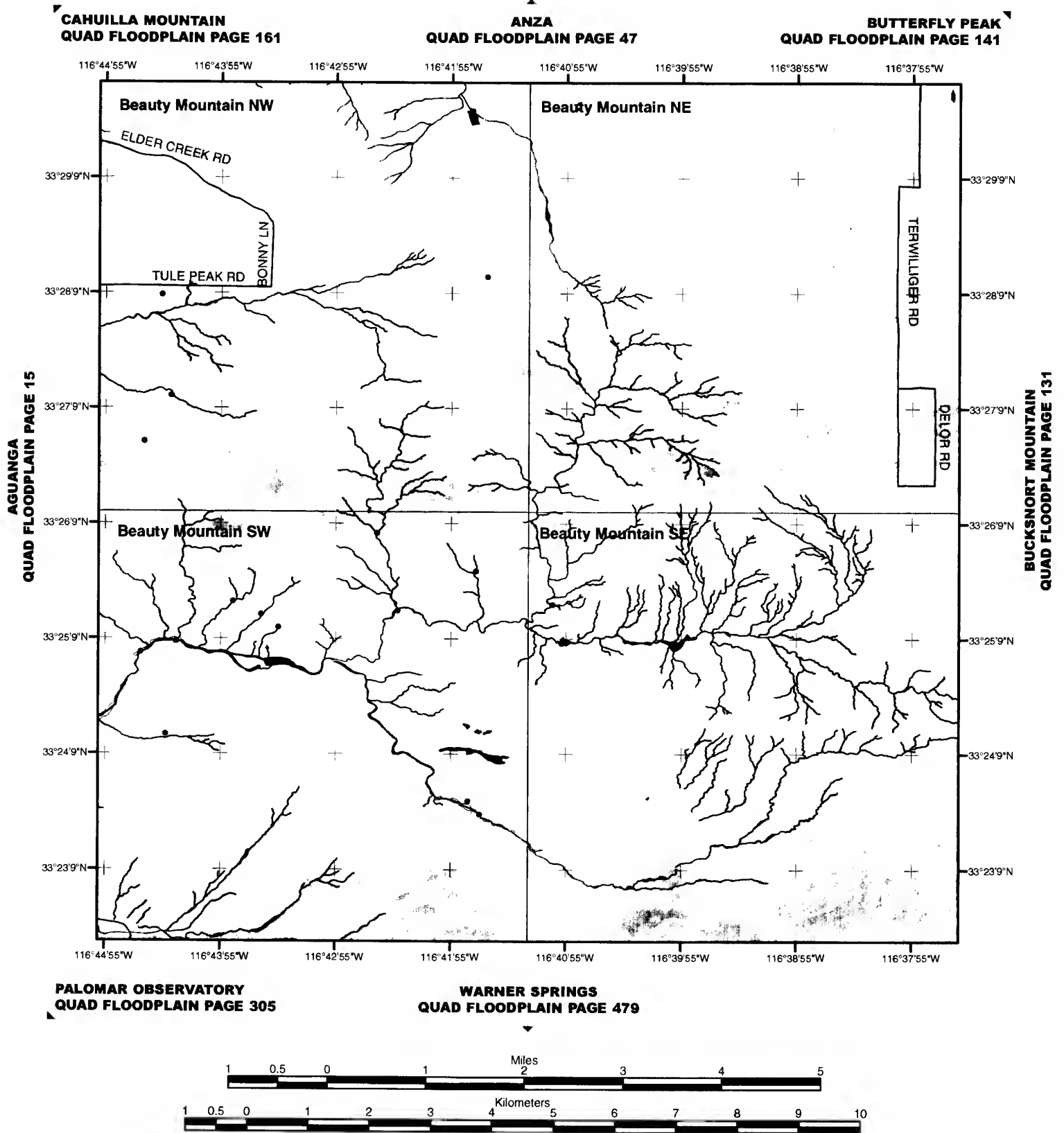


# Beauty Mountain South East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

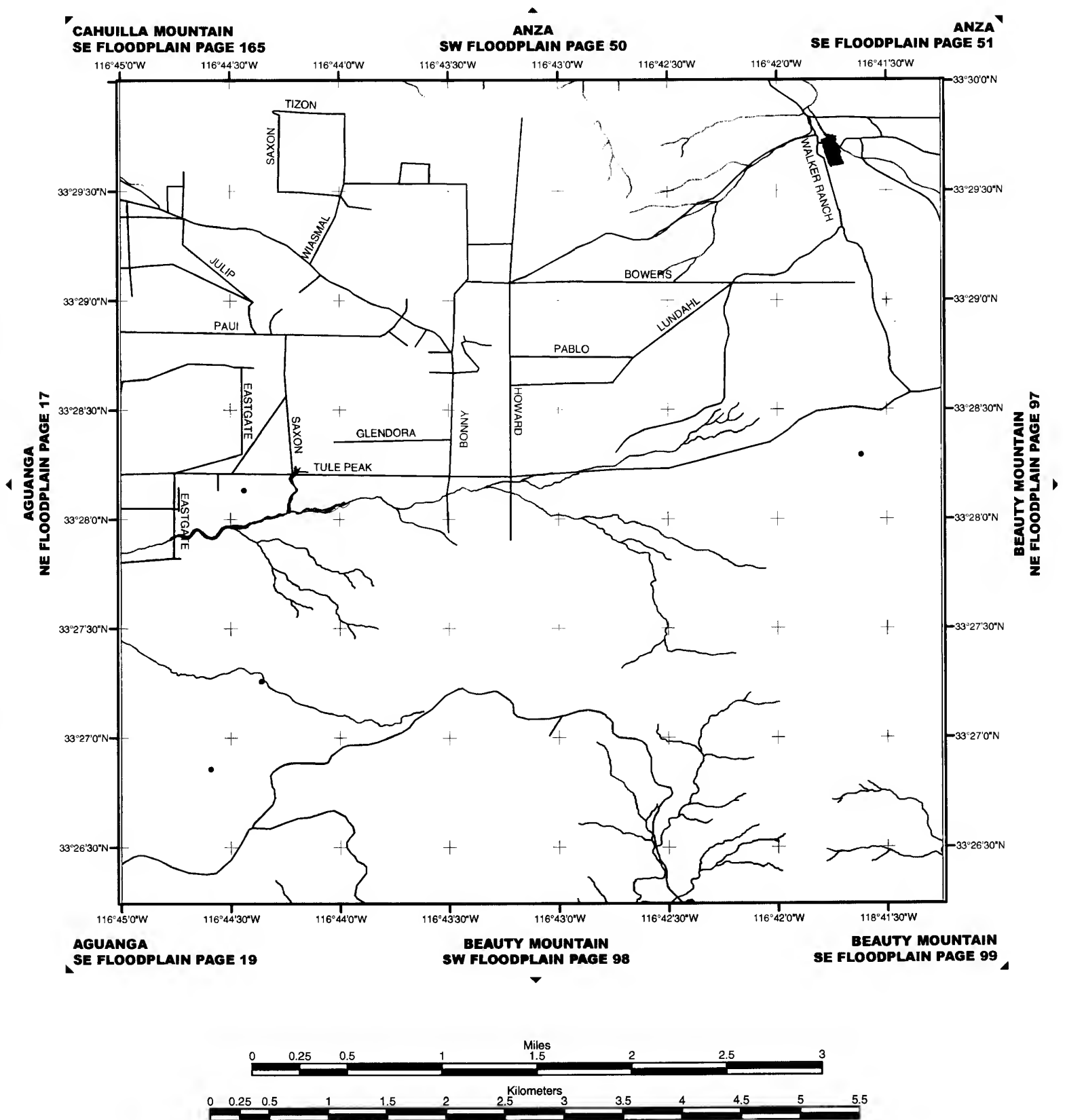


# Beauty Mountain Quadrangle

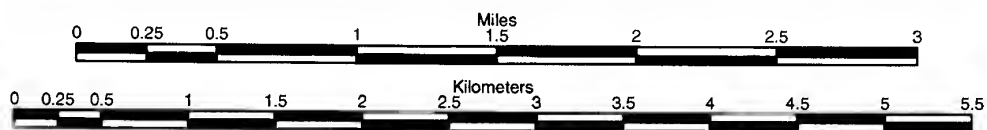
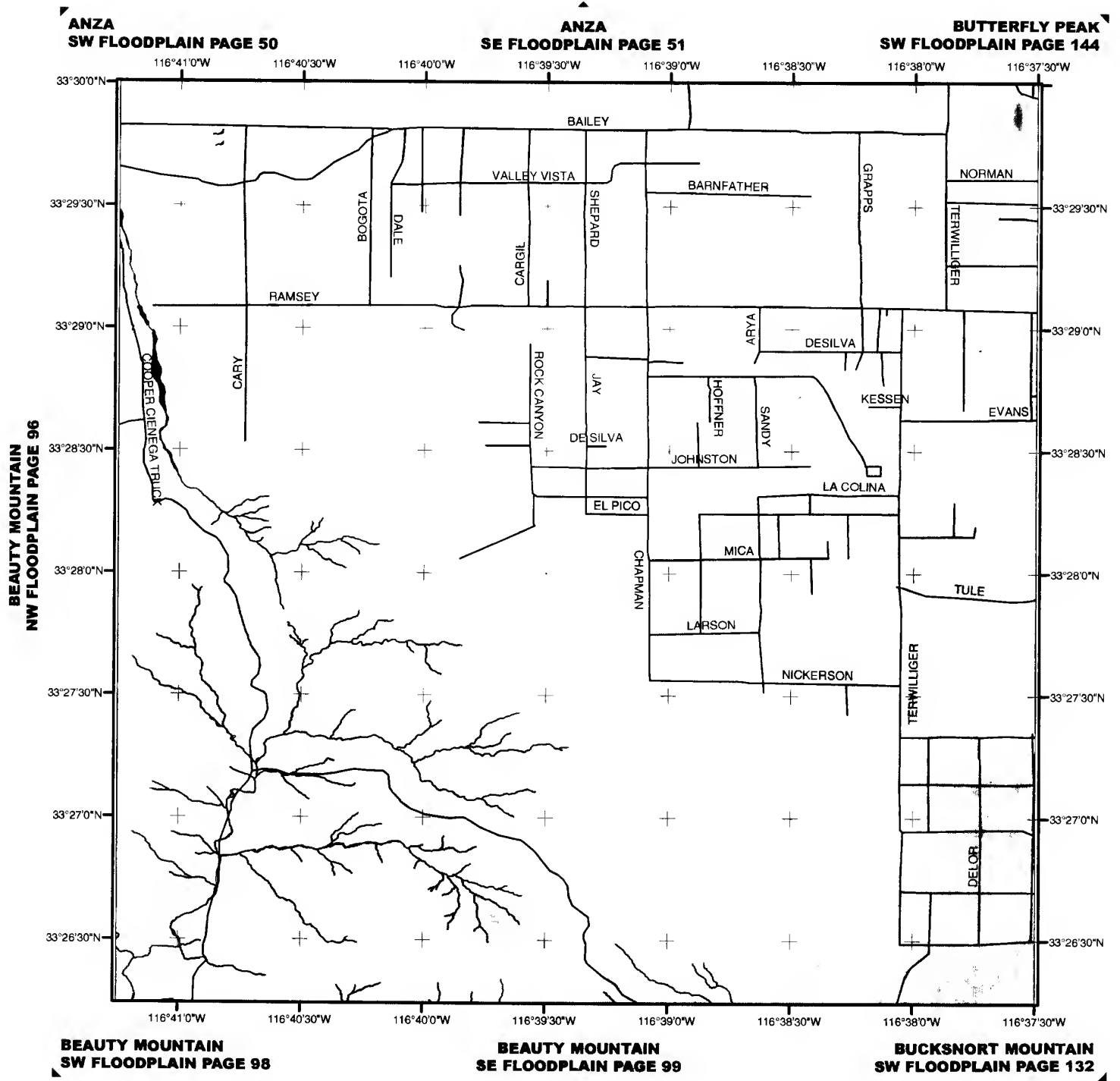
## Hydrogeomorphic Floodplain Units for Aquatic Resources



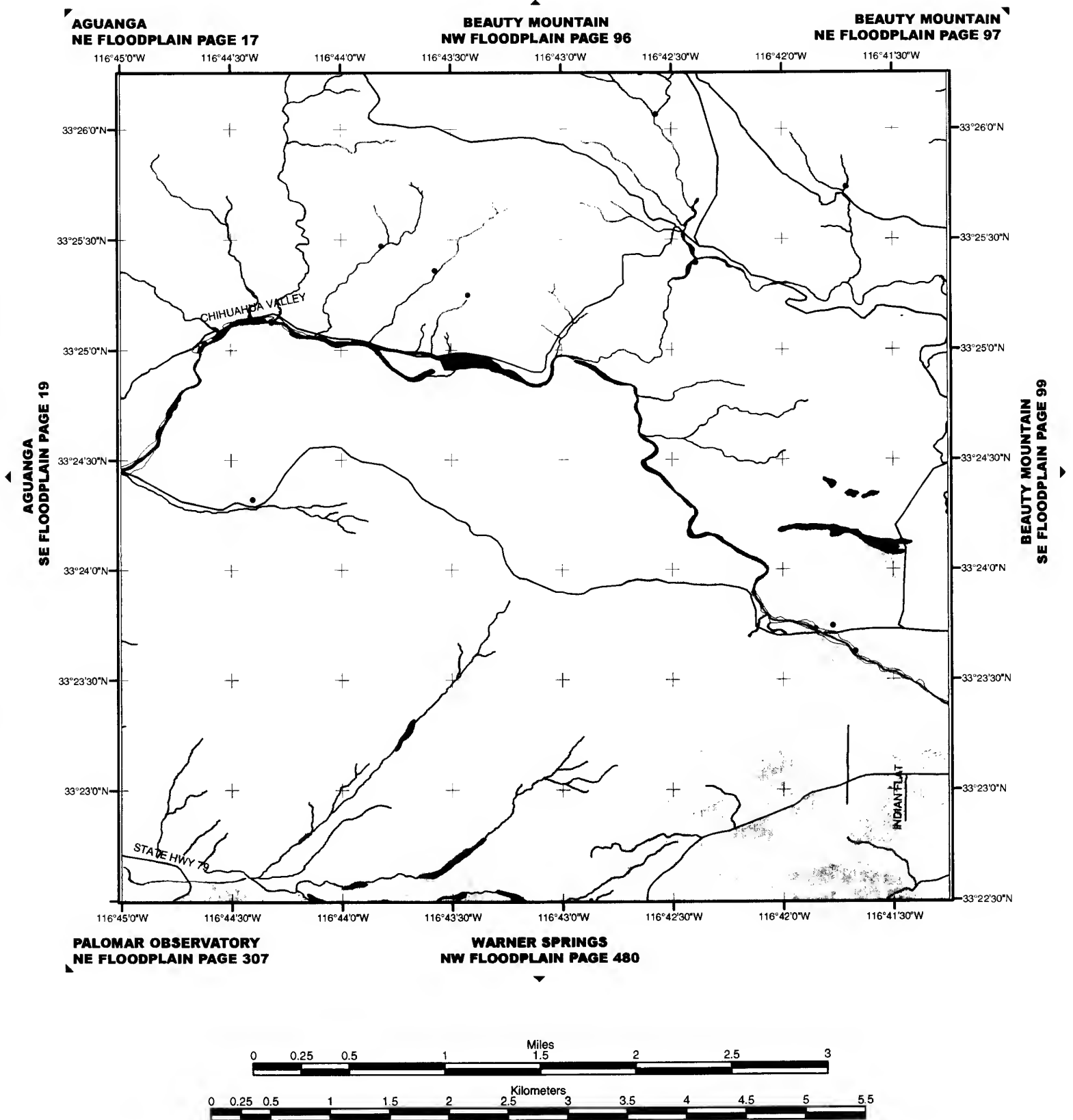
# Beauty Mountain North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



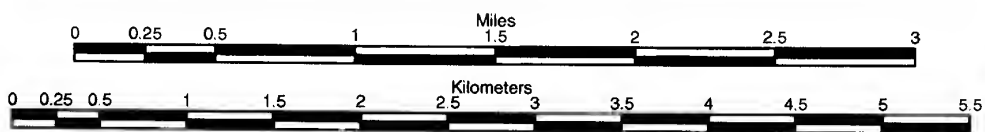
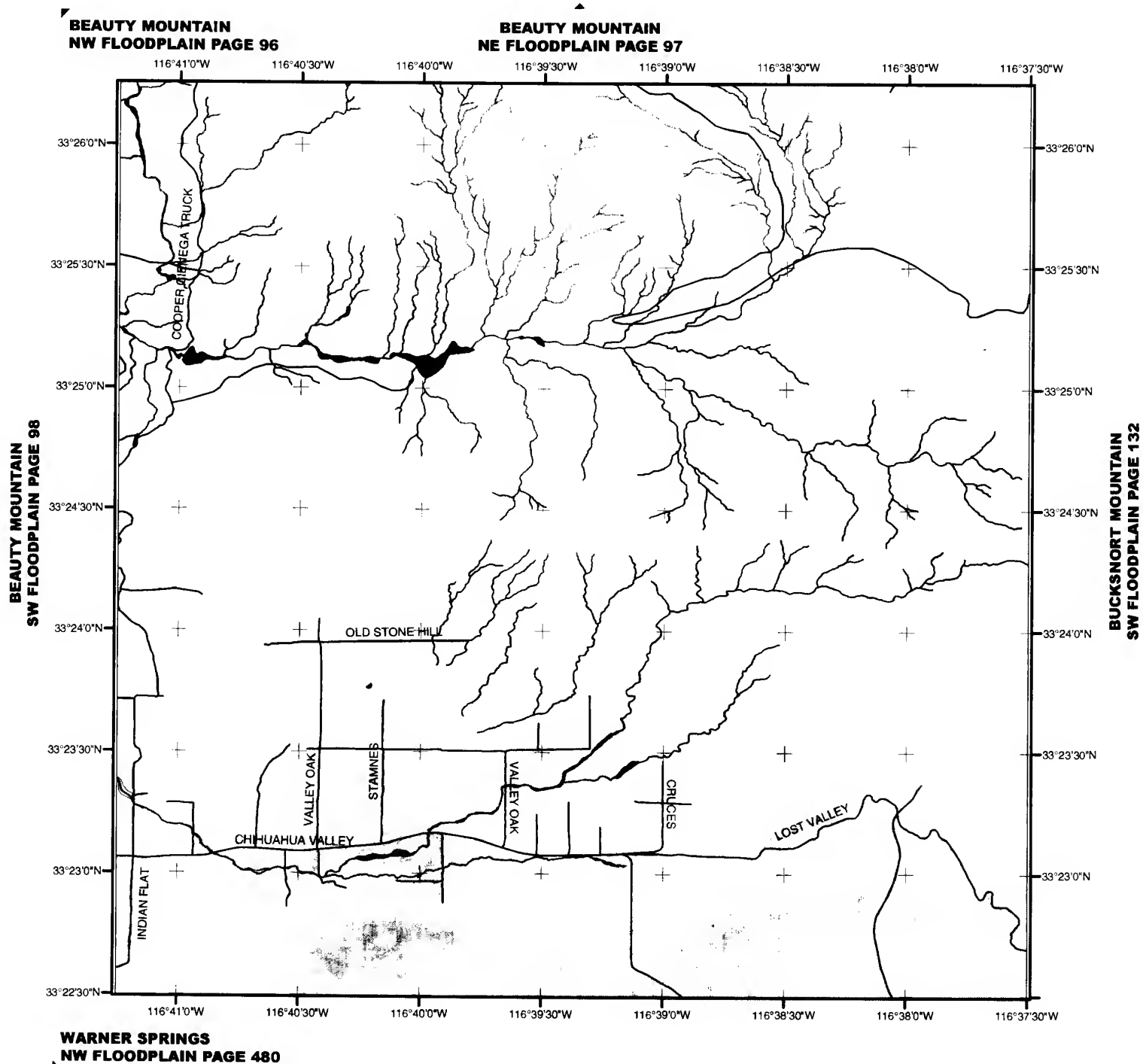
# Beauty Mountain North East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



# Beauty Mountain South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



# Beauty Mountain South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

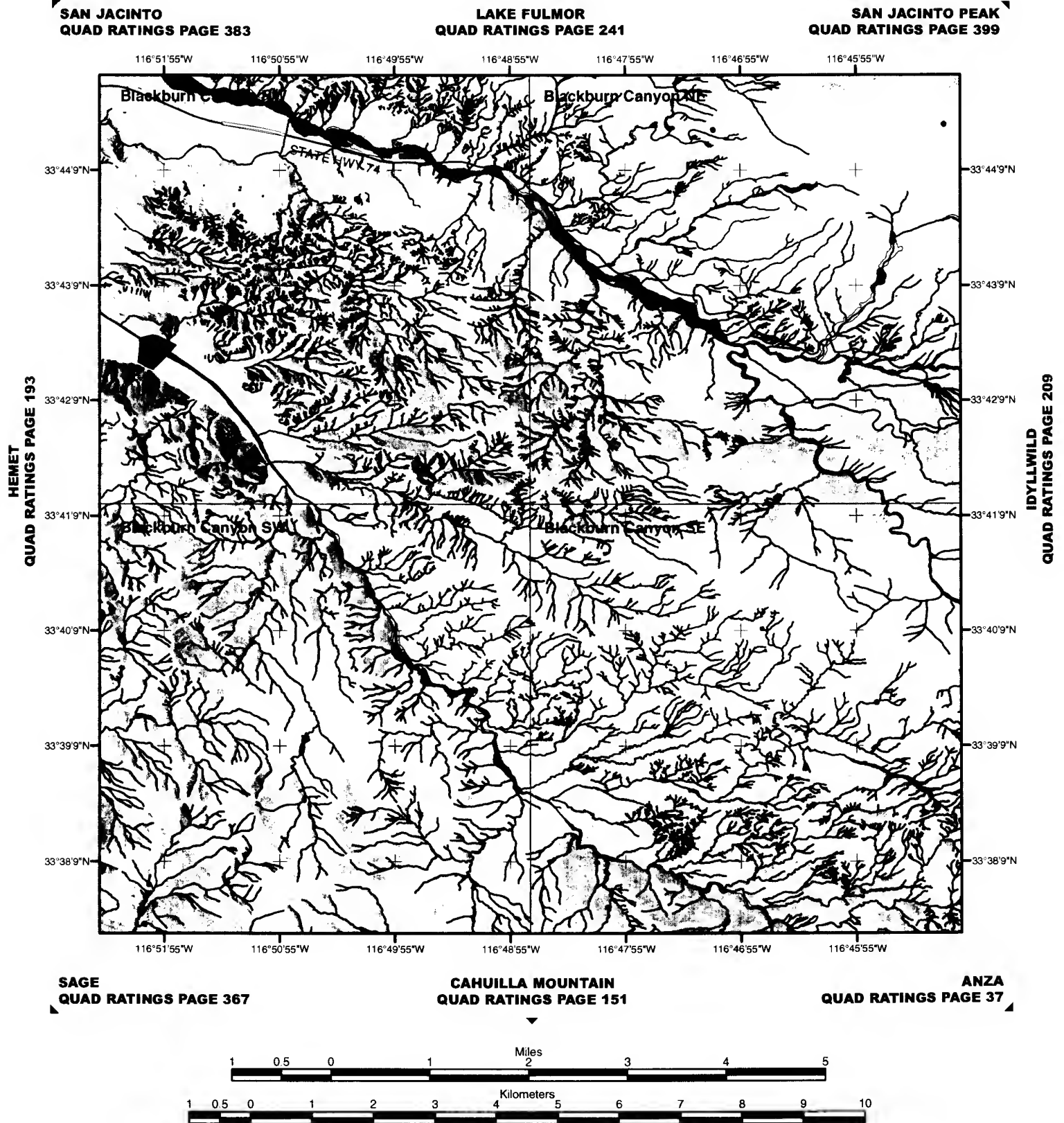




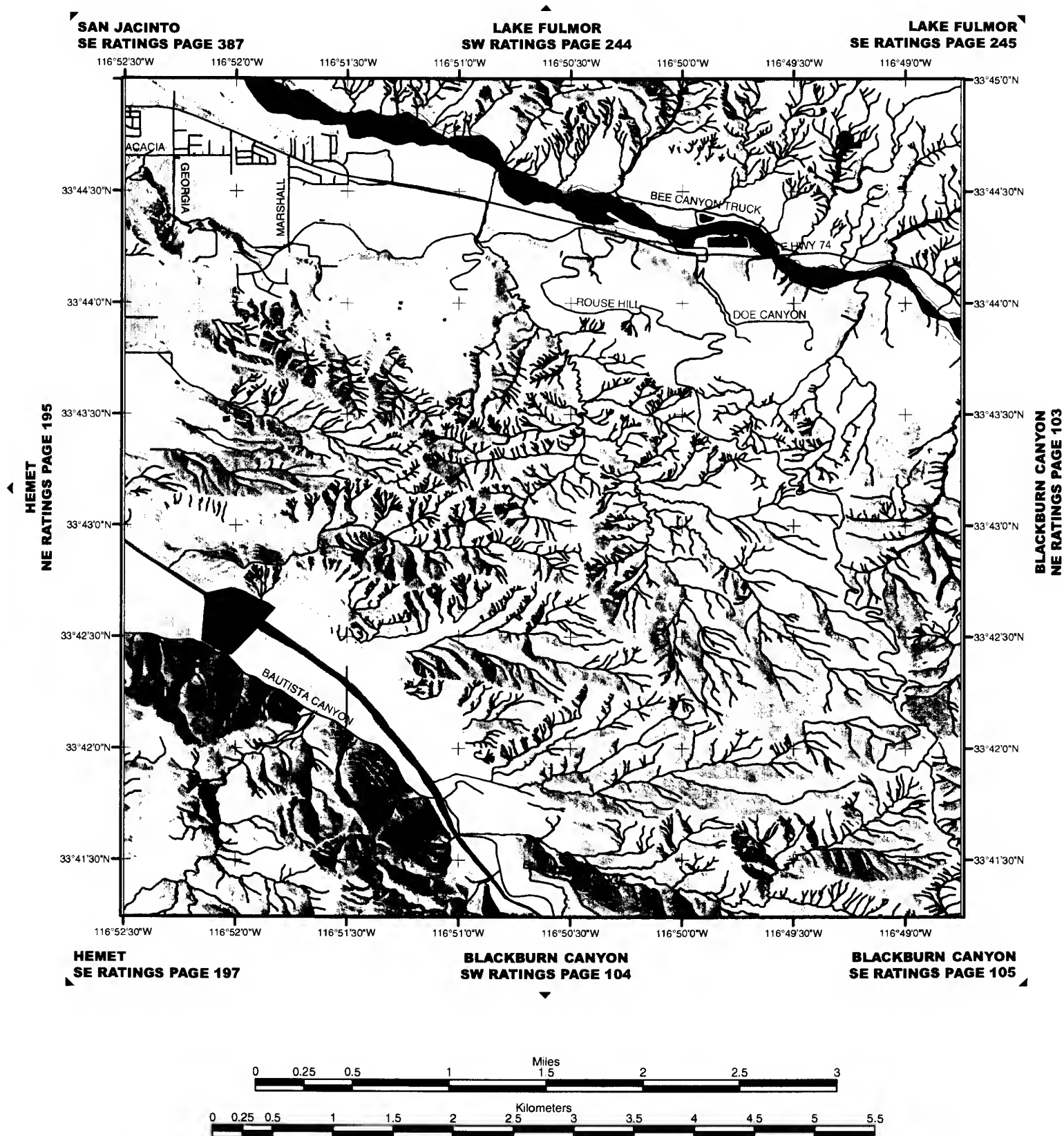


# Blackburn Canyon Quadrangle

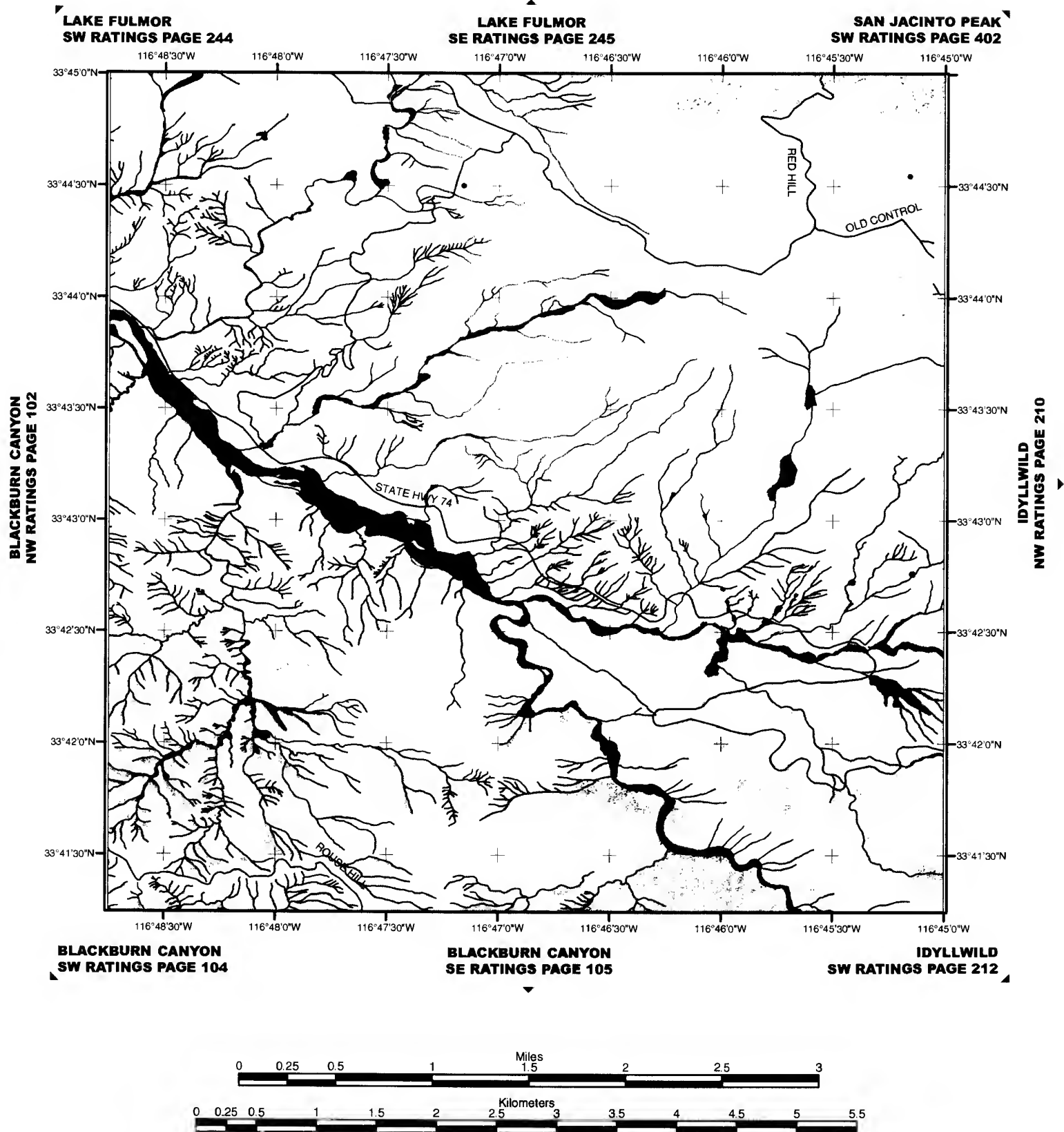
## Regulatory Probability Ratings for Aquatic Resources



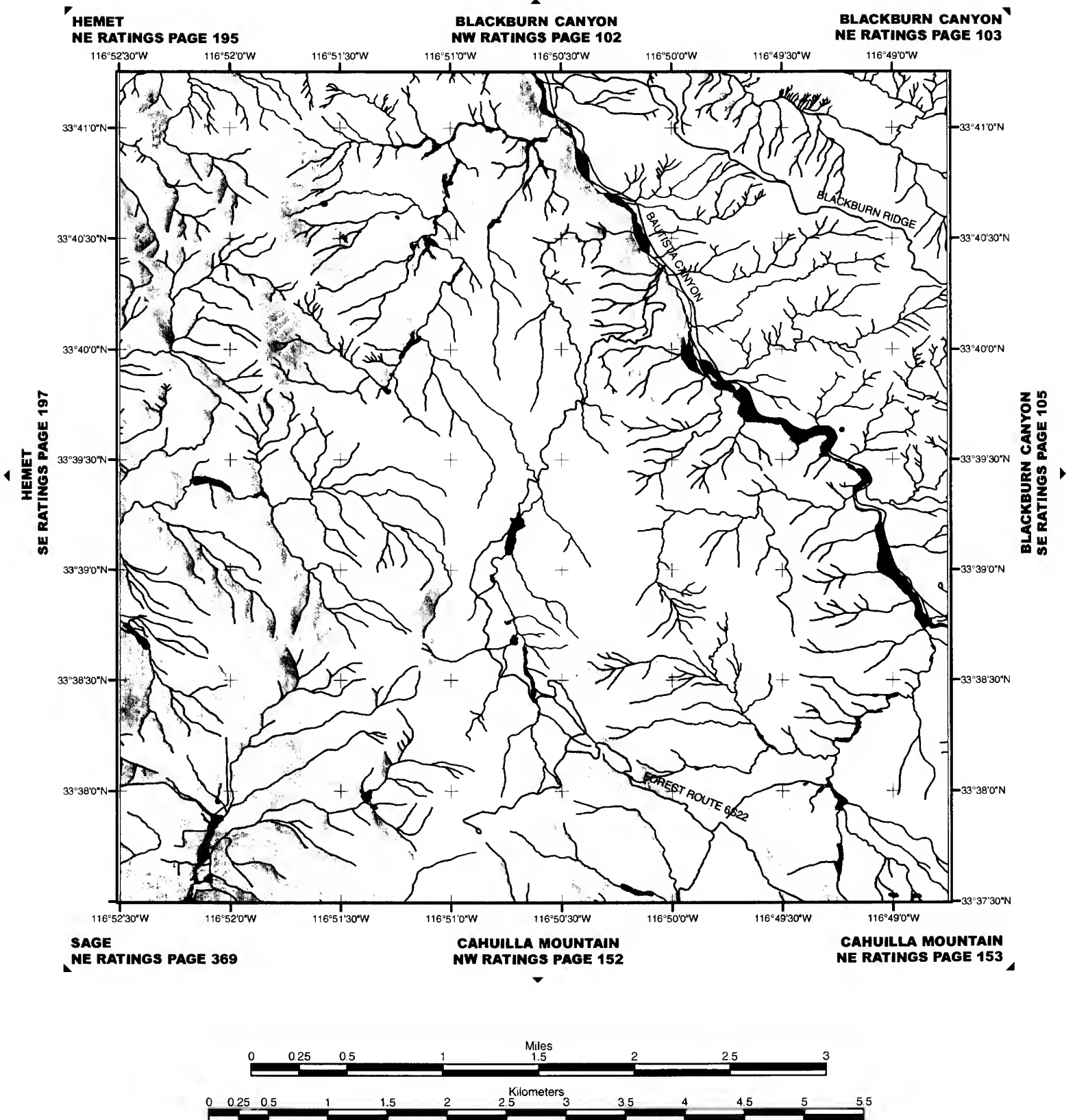
# Blackburn Canyon North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



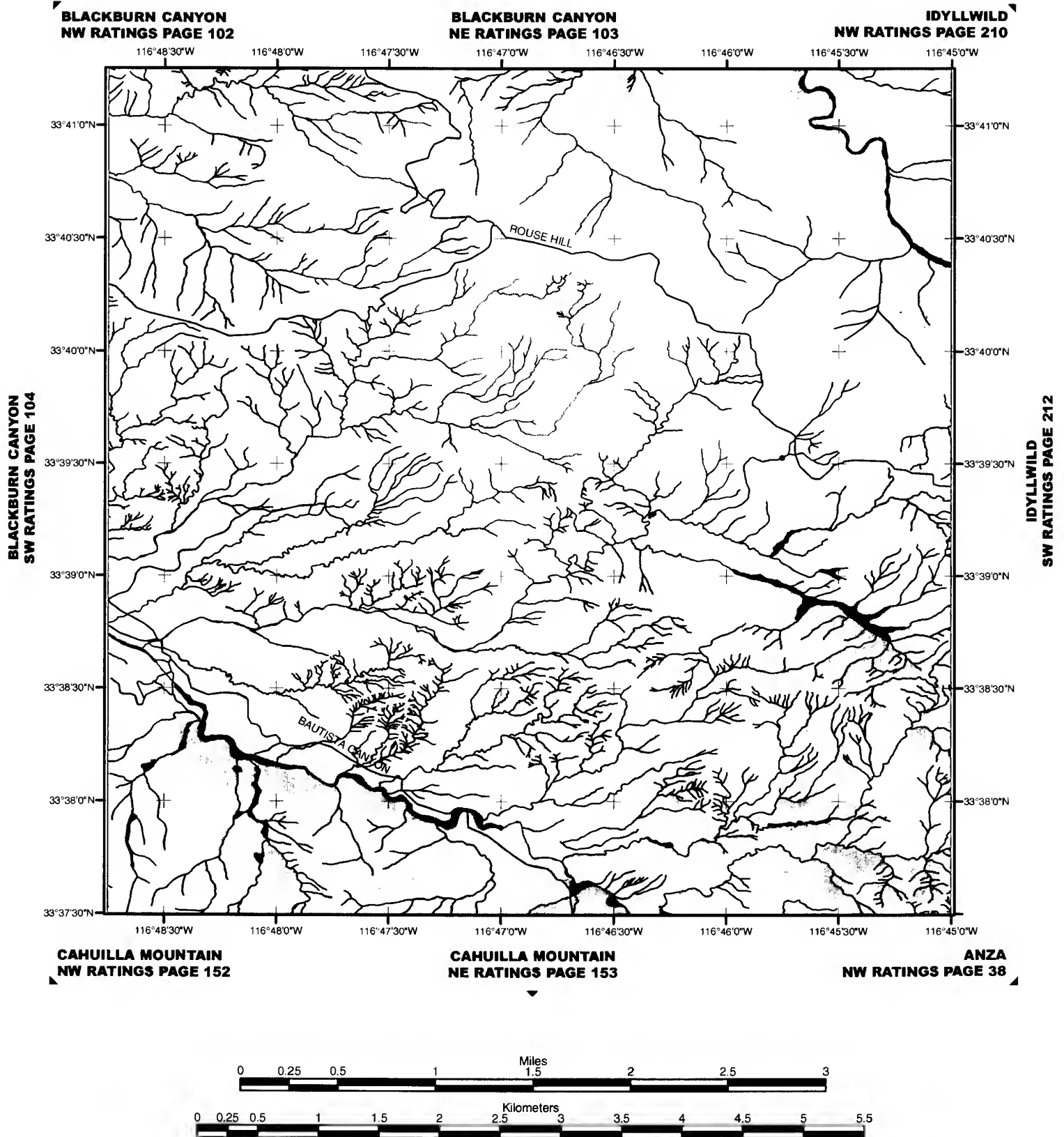
# Blackburn Canyon North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



# Blackburn Canyon South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

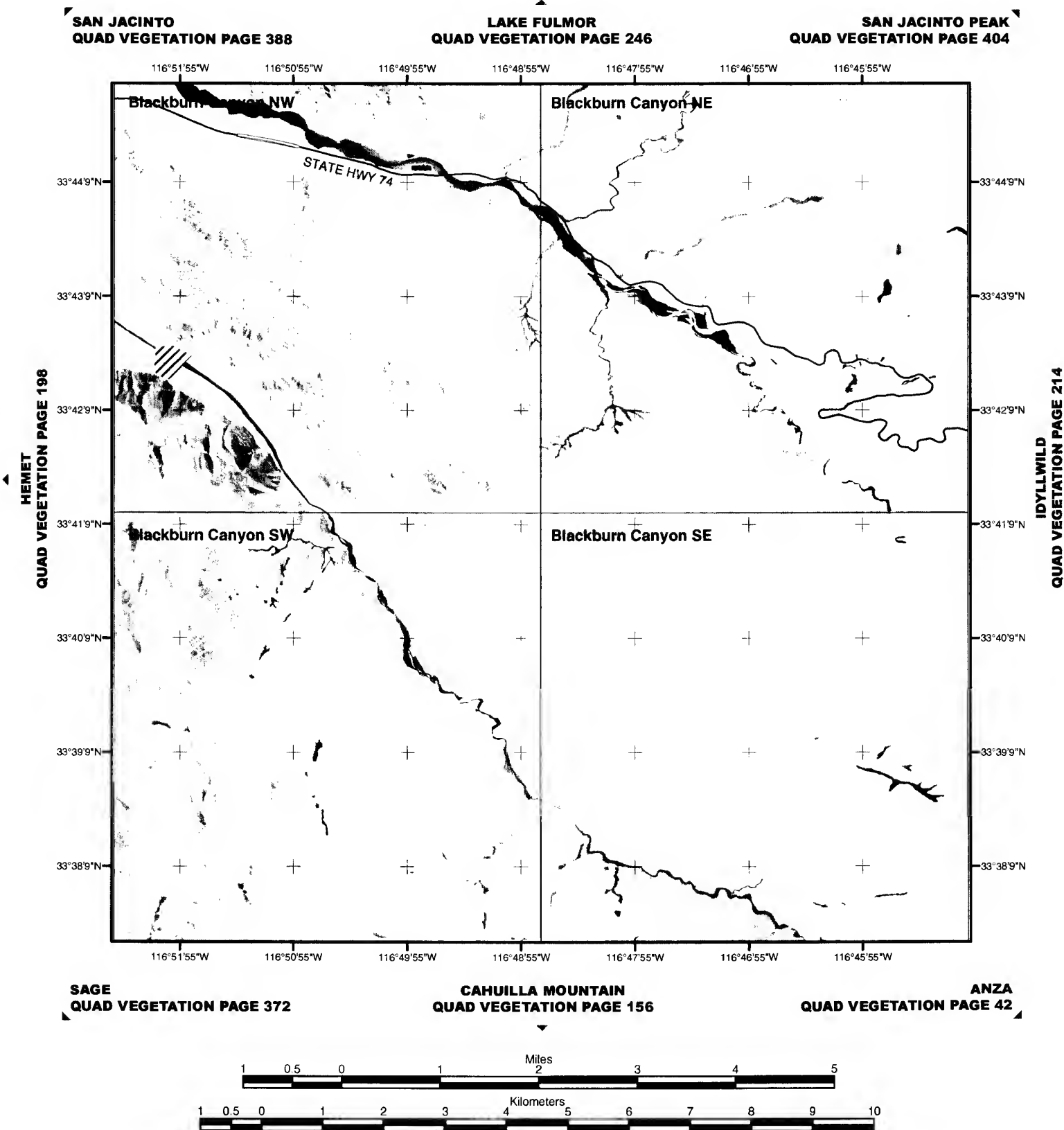


# Blackburn Canyon South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

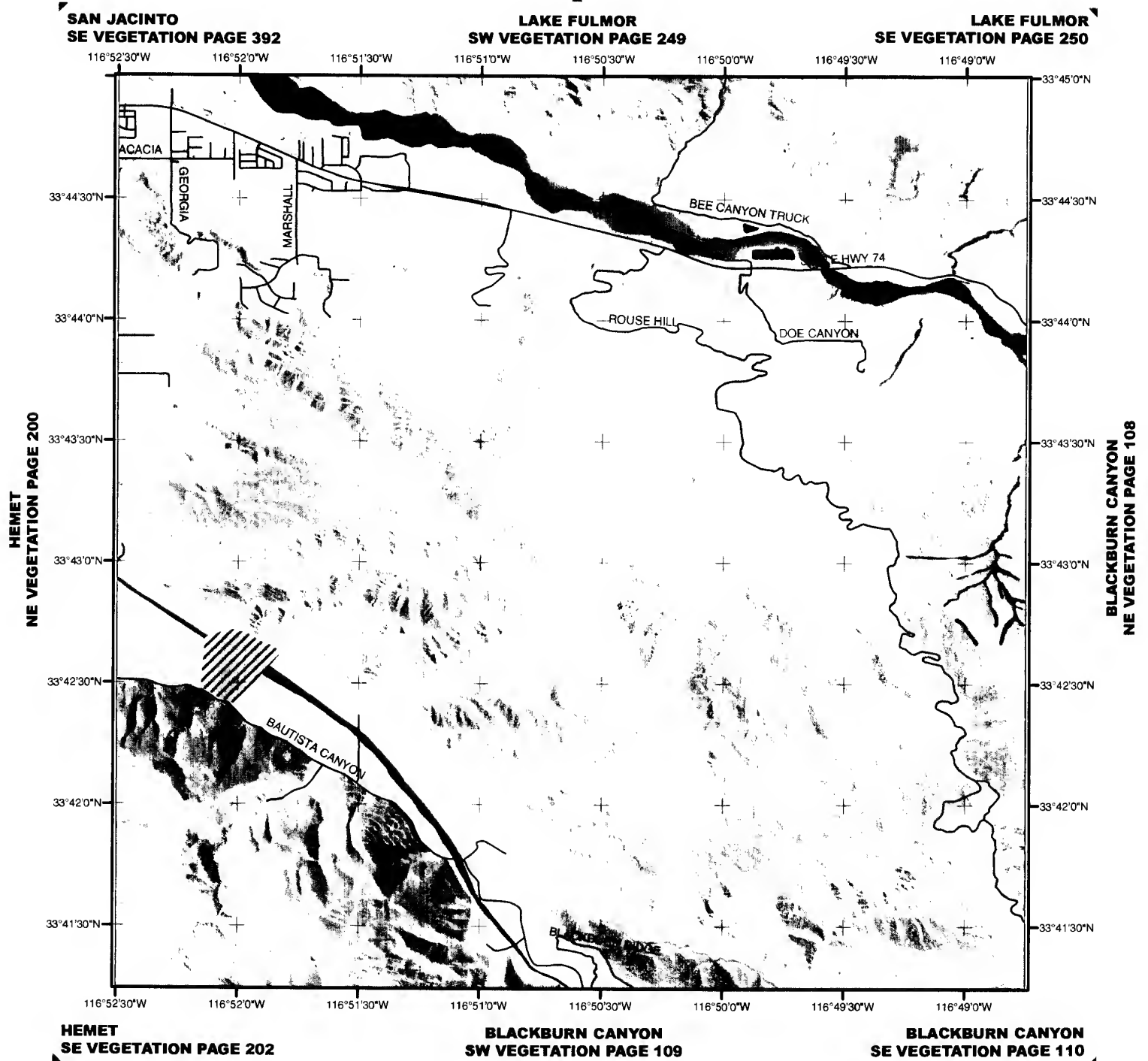


# Blackburn Canyon Quadrangle

## Vegetation Species Association Units for Aquatic Resources

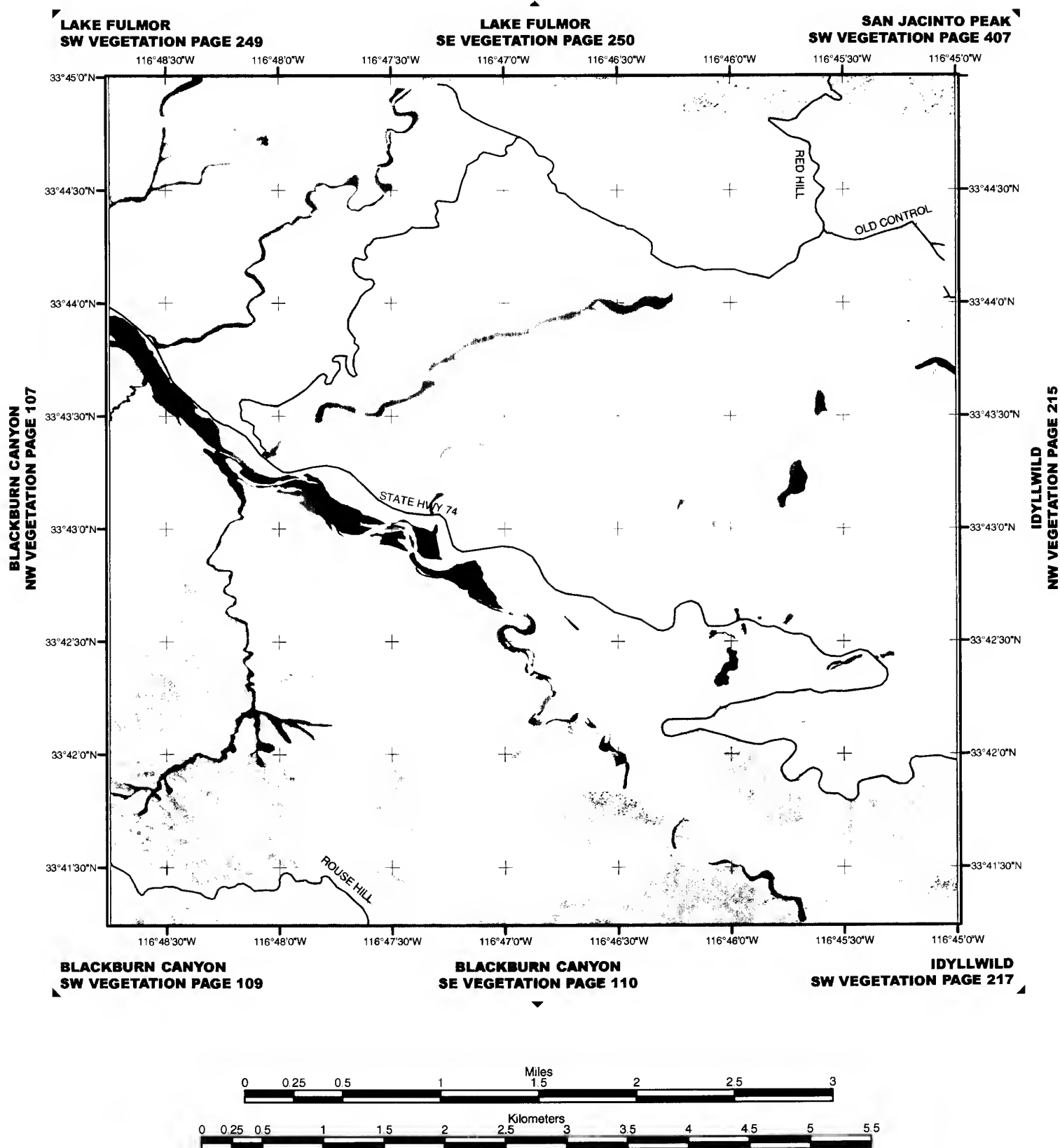


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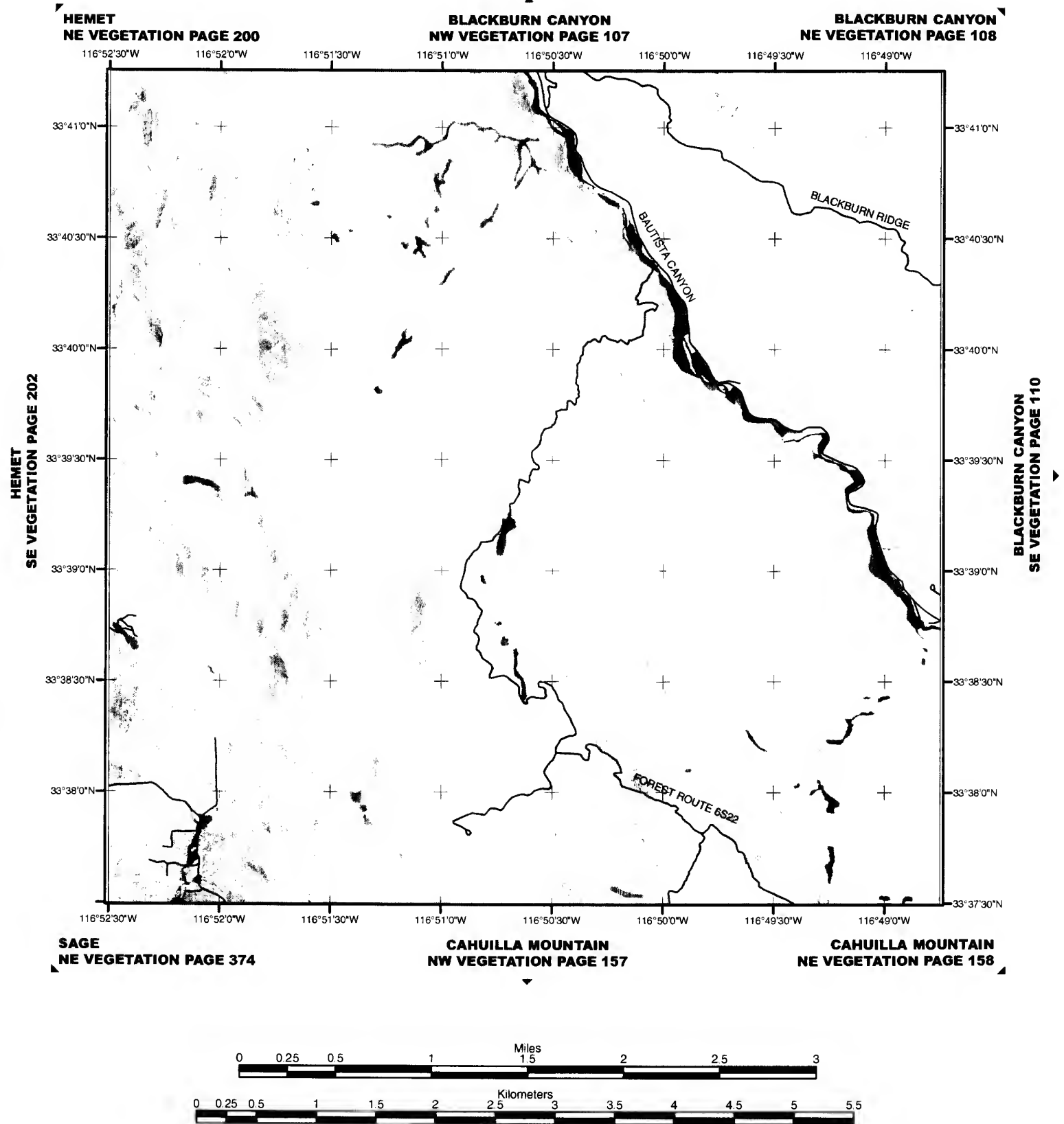




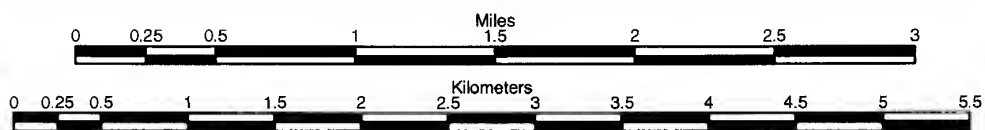
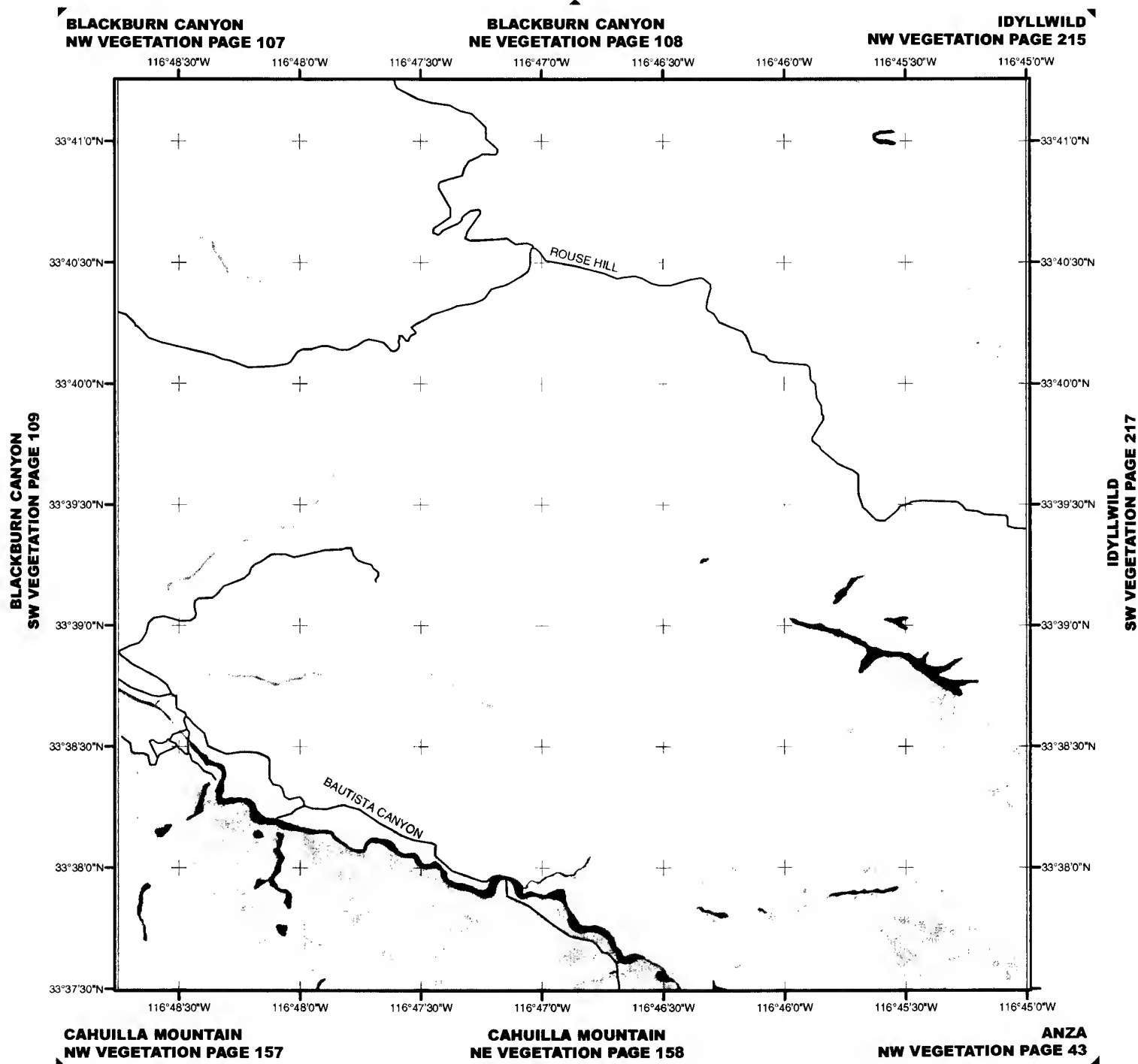
# Blackburn Canyon North East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



# Blackburn Canyon South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



# Blackburn Canyon South East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



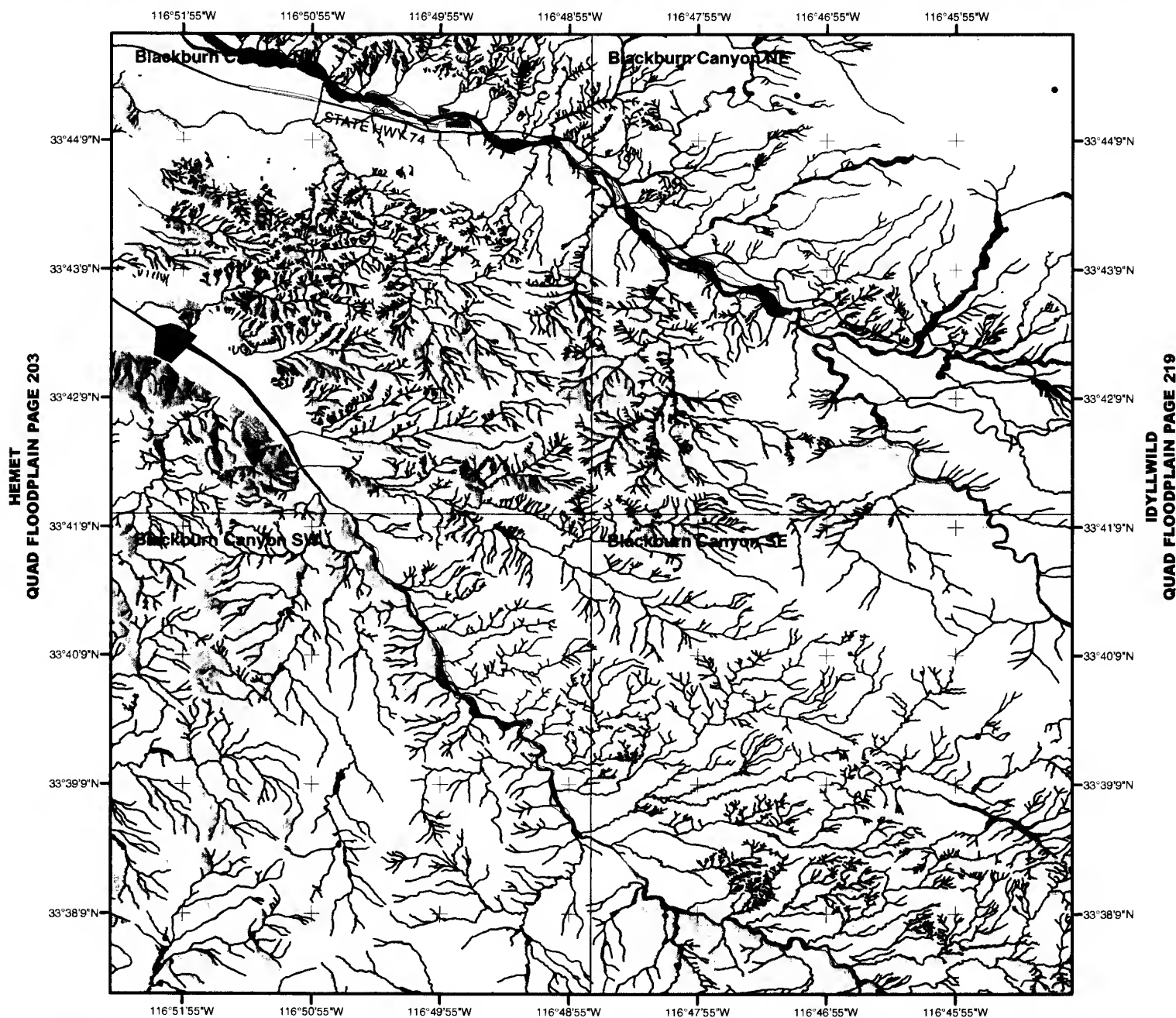
# Blackburn Canyon Quadrangle

## Hydrogeomorphic Floodplain Units for Aquatic Resources

**SAN JACINTO**  
QUAD FLOODPLAIN PAGE 393

**LAKE FULMOR**  
QUAD FLOODPLAIN PAGE 251

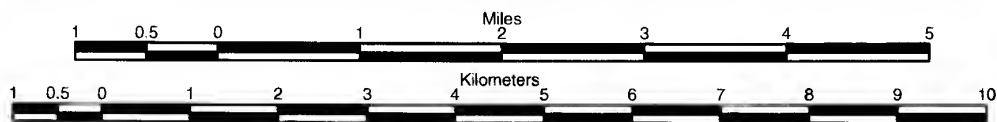
**SAN JACINTO PEAK**  
QUAD FLOODPLAIN PAGE 409



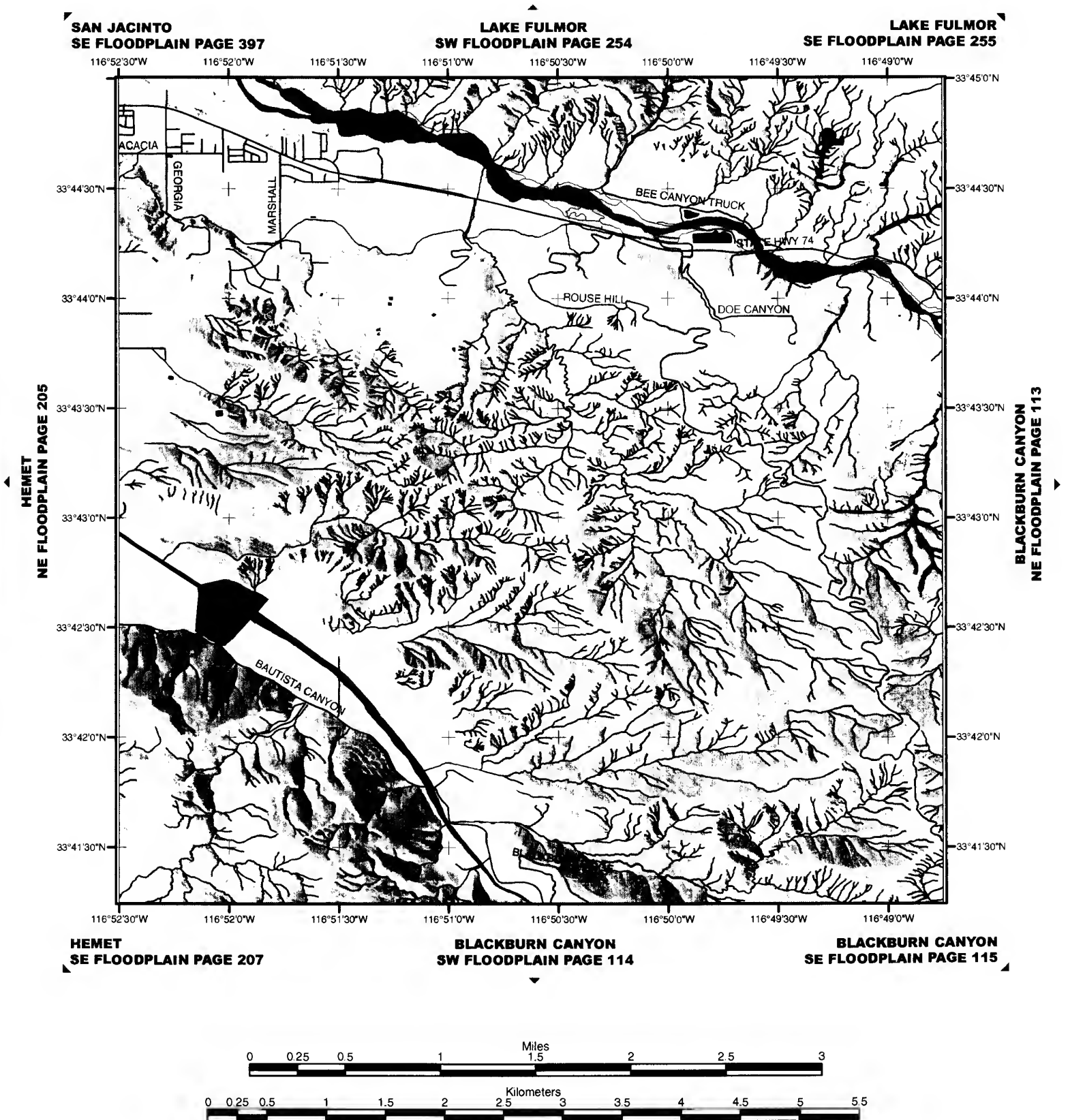
**SAGE**  
QUAD FLOODPLAIN PAGE 377

**CAHUILLA MOUNTAIN**  
QUAD FLOODPLAIN PAGE 161

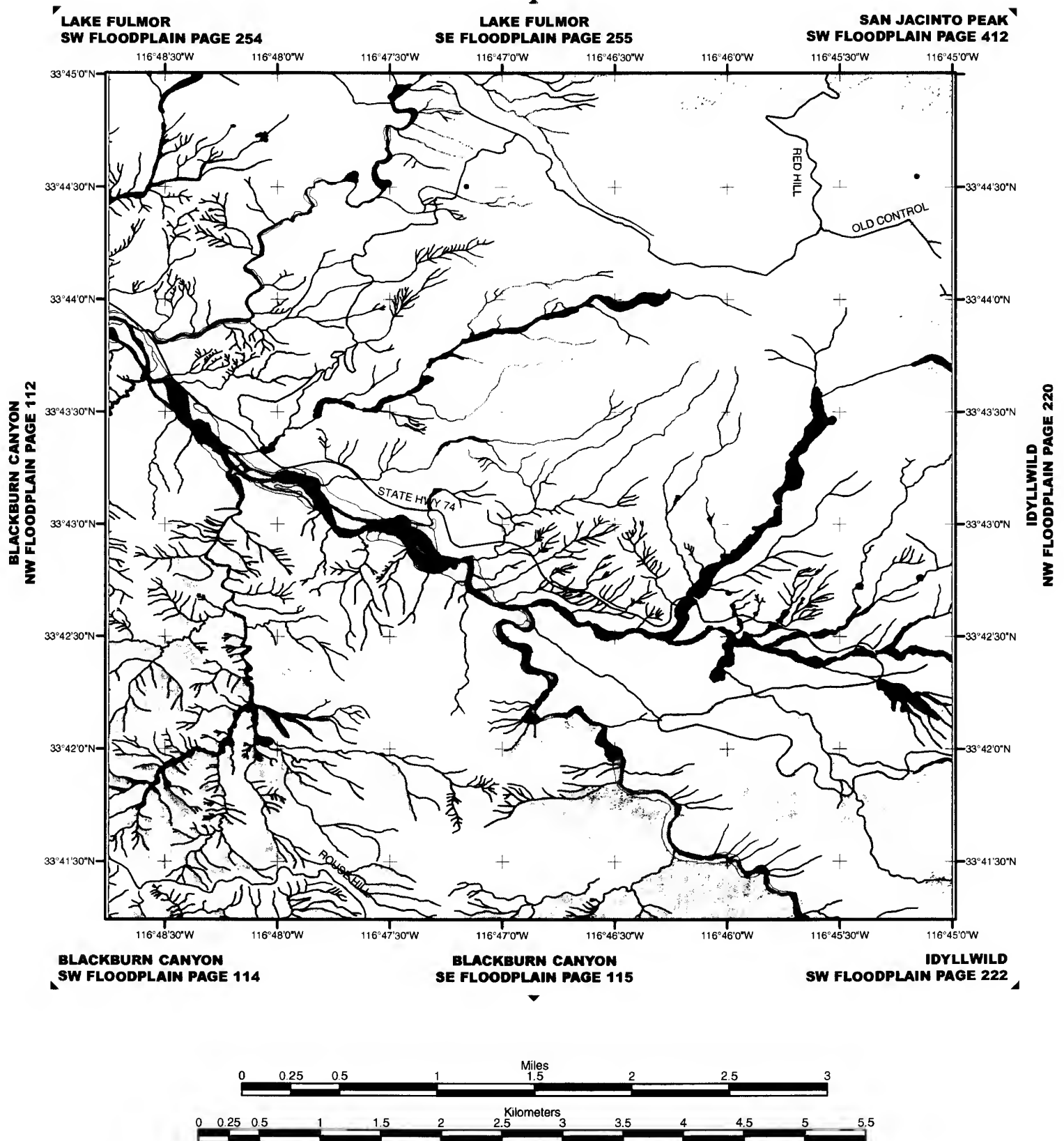
**ANZA**  
QUAD FLOODPLAIN PAGE 47



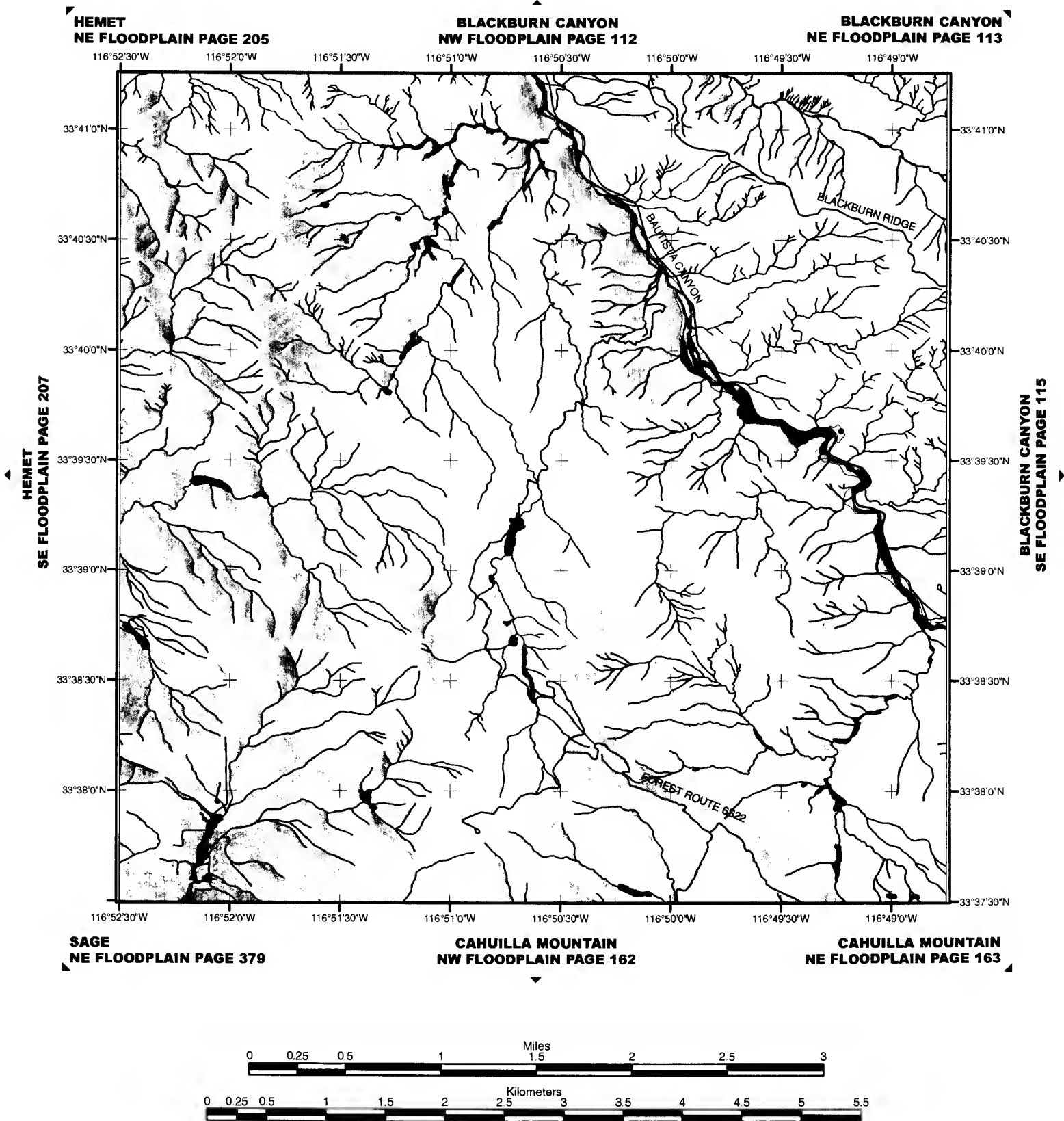
# Blackburn Canyon North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



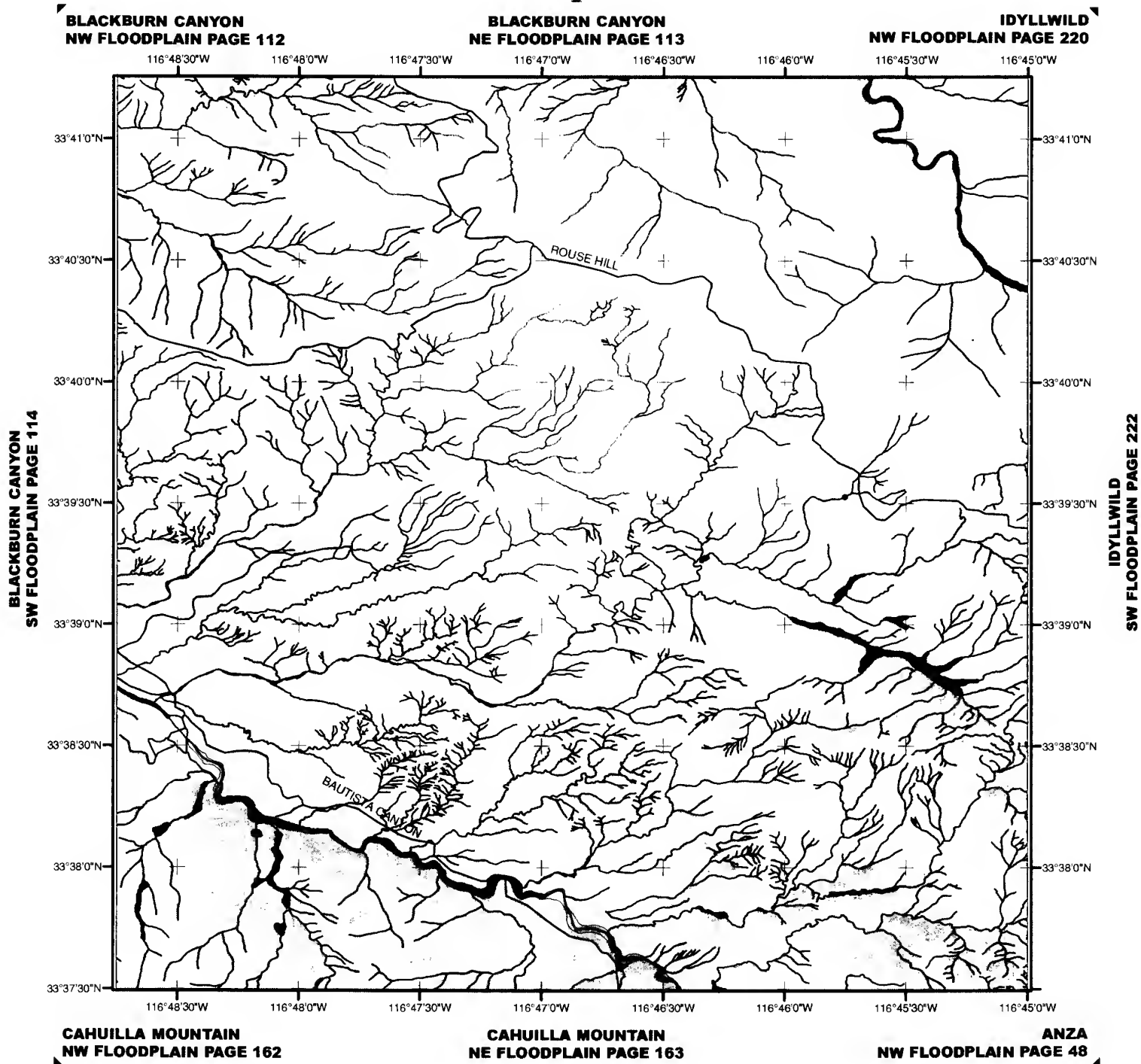
# Blackburn Canyon North East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



# Blackburn Canyon South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



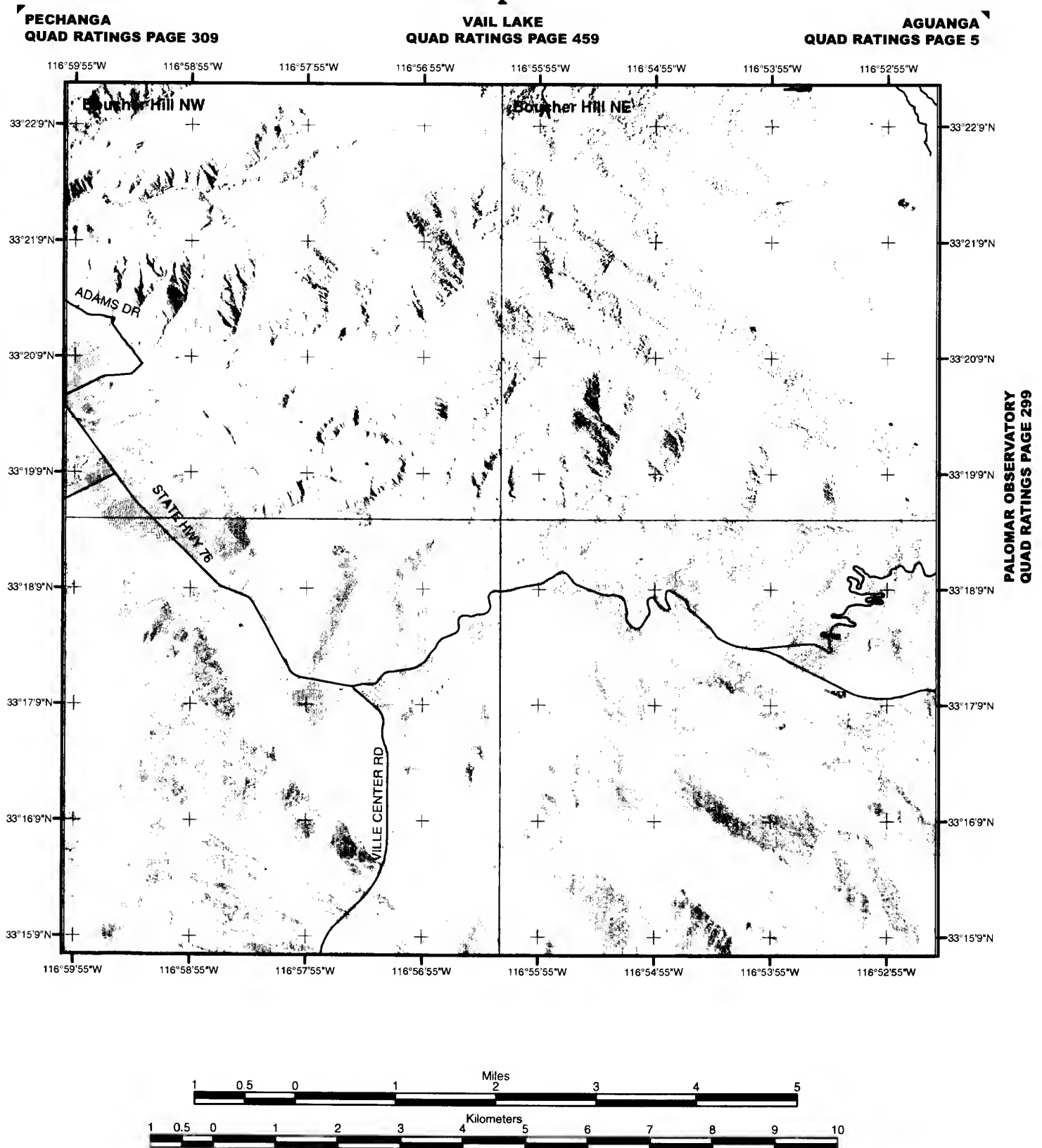
# Blackburn Canyon South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



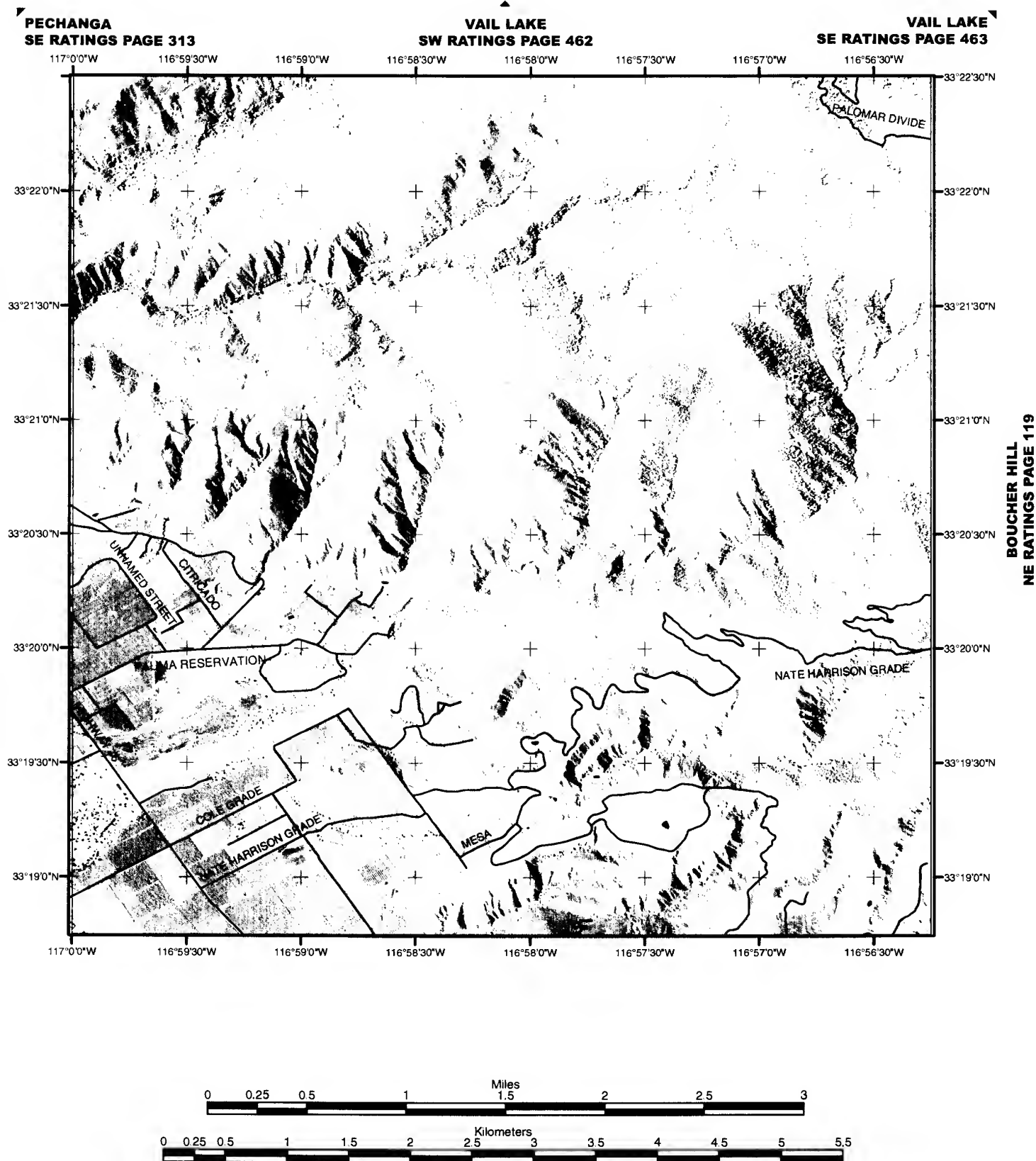




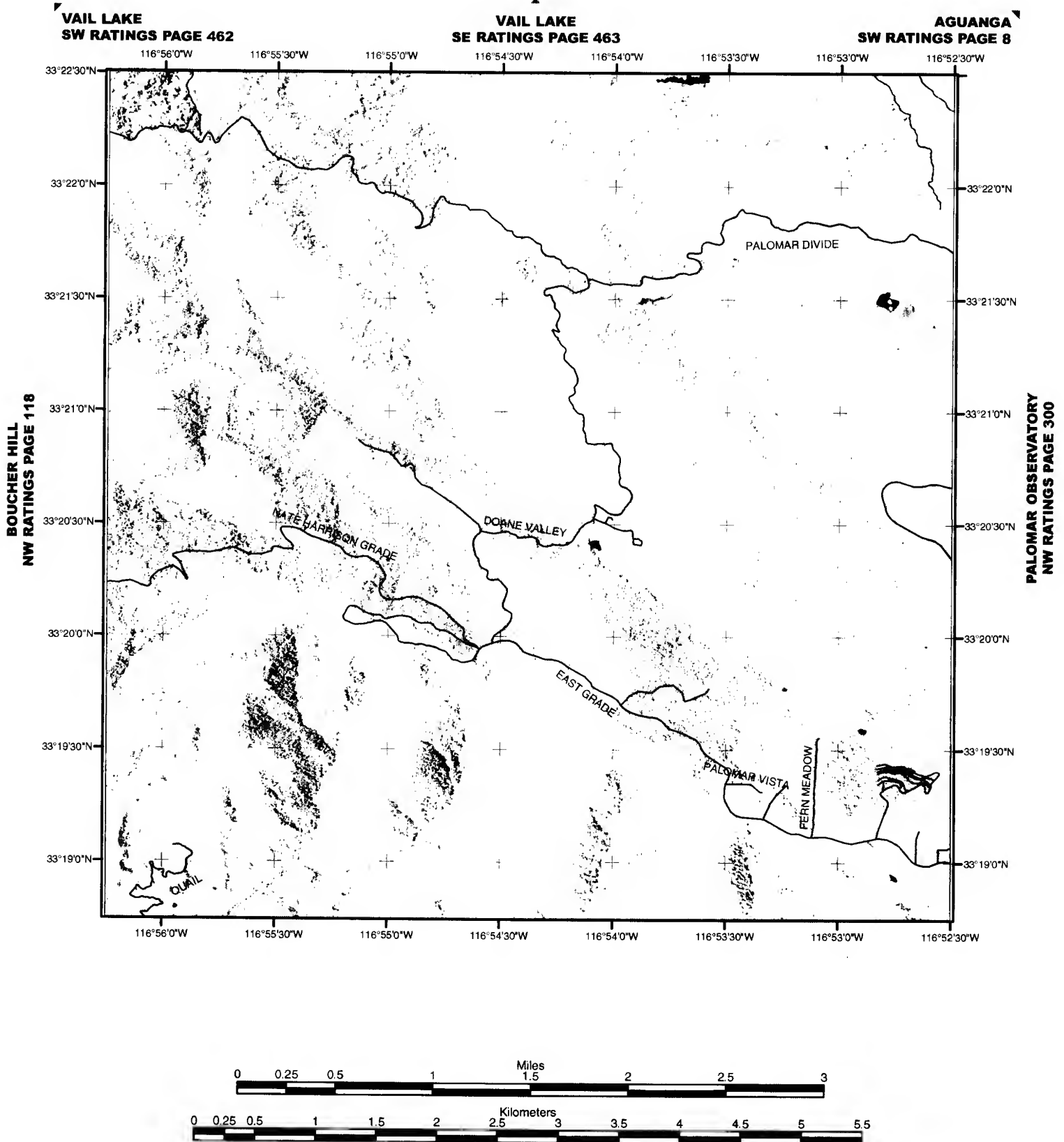
# Boucher Hill Quadrangle Regulatory Probability Ratings for Aquatic Resources



# Boucher Hill North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

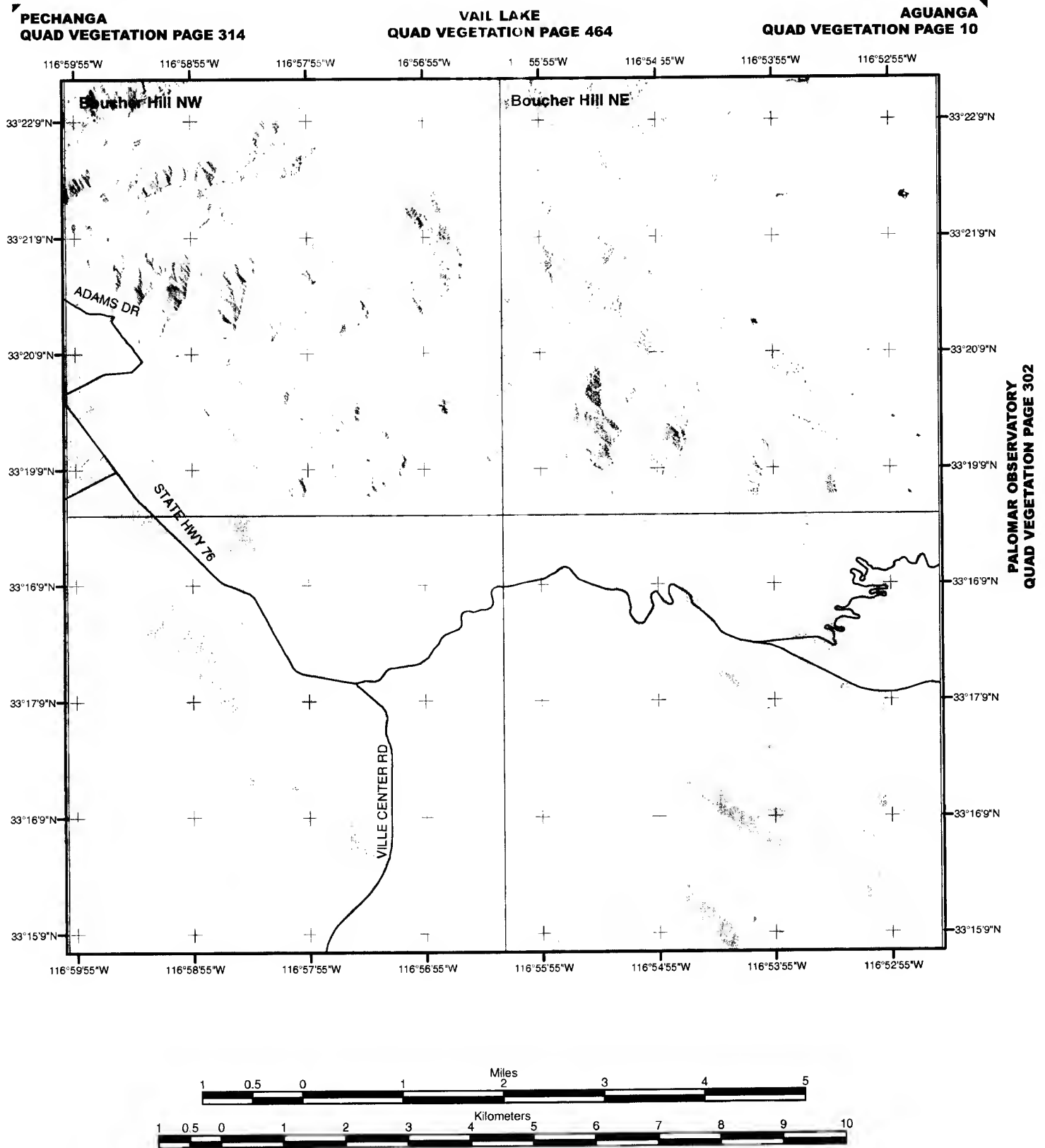


# Boucher Hill North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

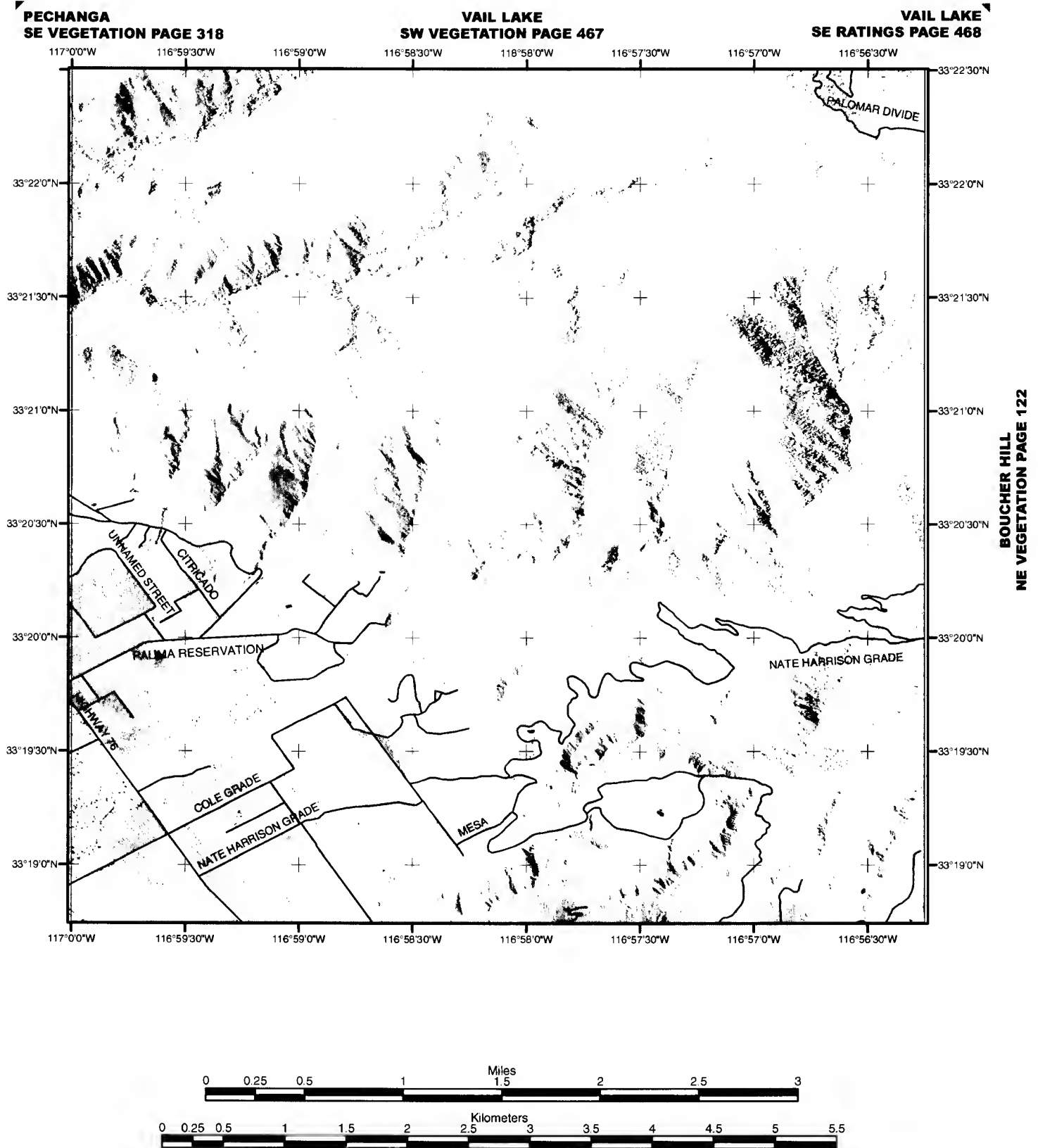


# Boucher Hill Quadrangle

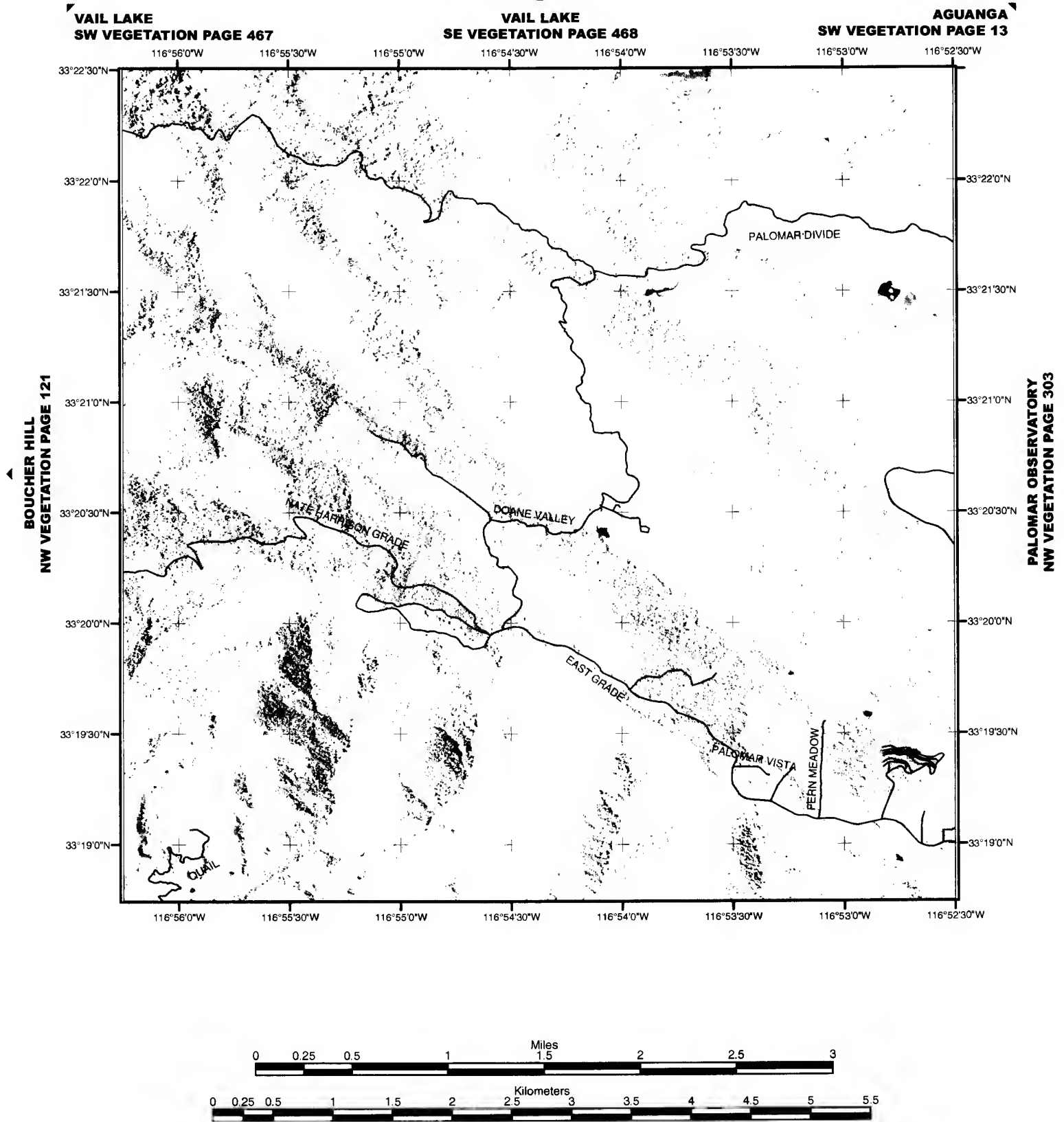
## Vegetation Species Association Units for Aquatic Resources



# Boucher Hill North West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

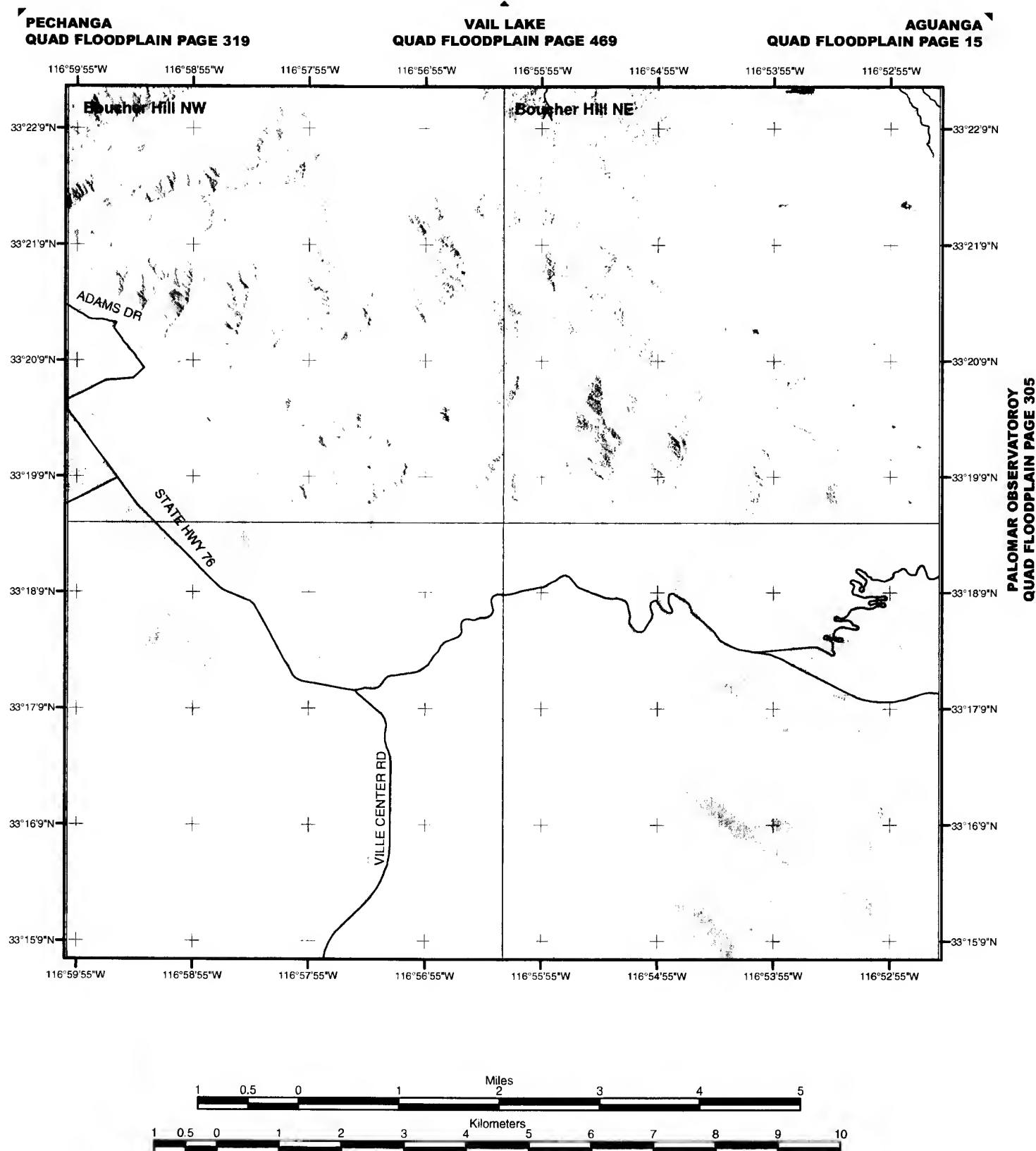


# Boucher Hill North East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



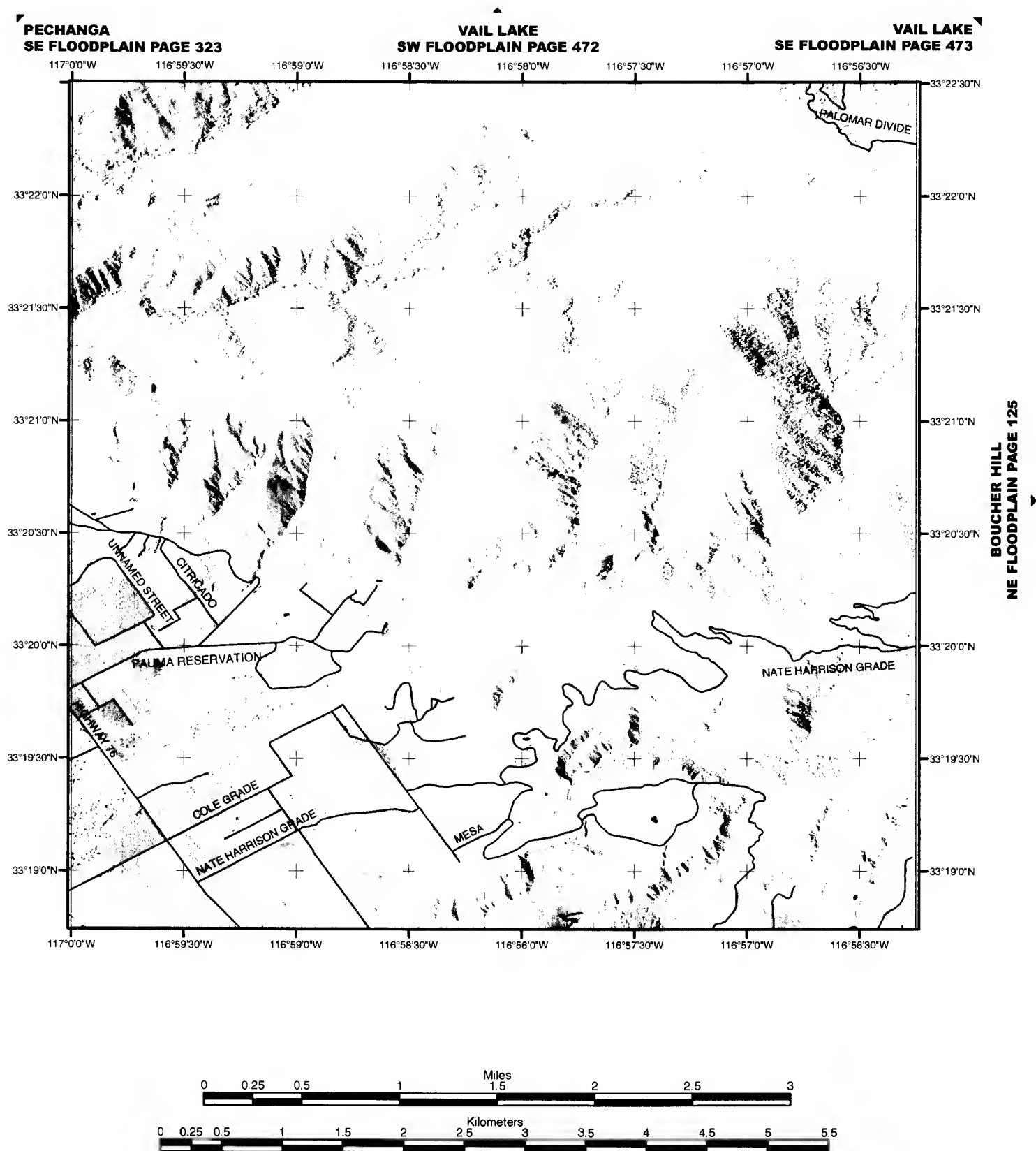
# Boucher Hill Quadrangle

## Hydrogeomorphic Floodplain Units for Aquatic Resources

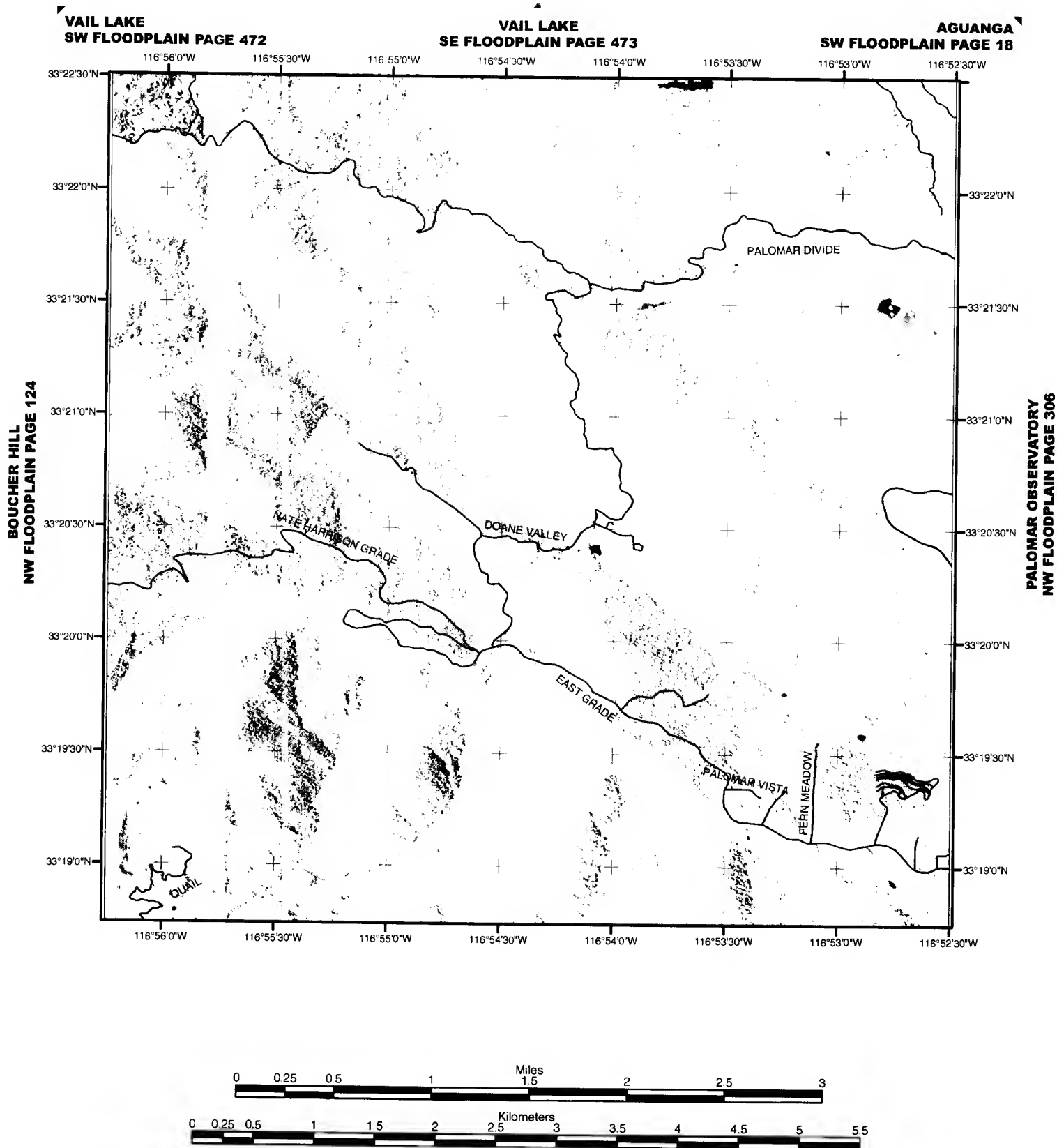




# Boucher Hill North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



# Boucher Hill North East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



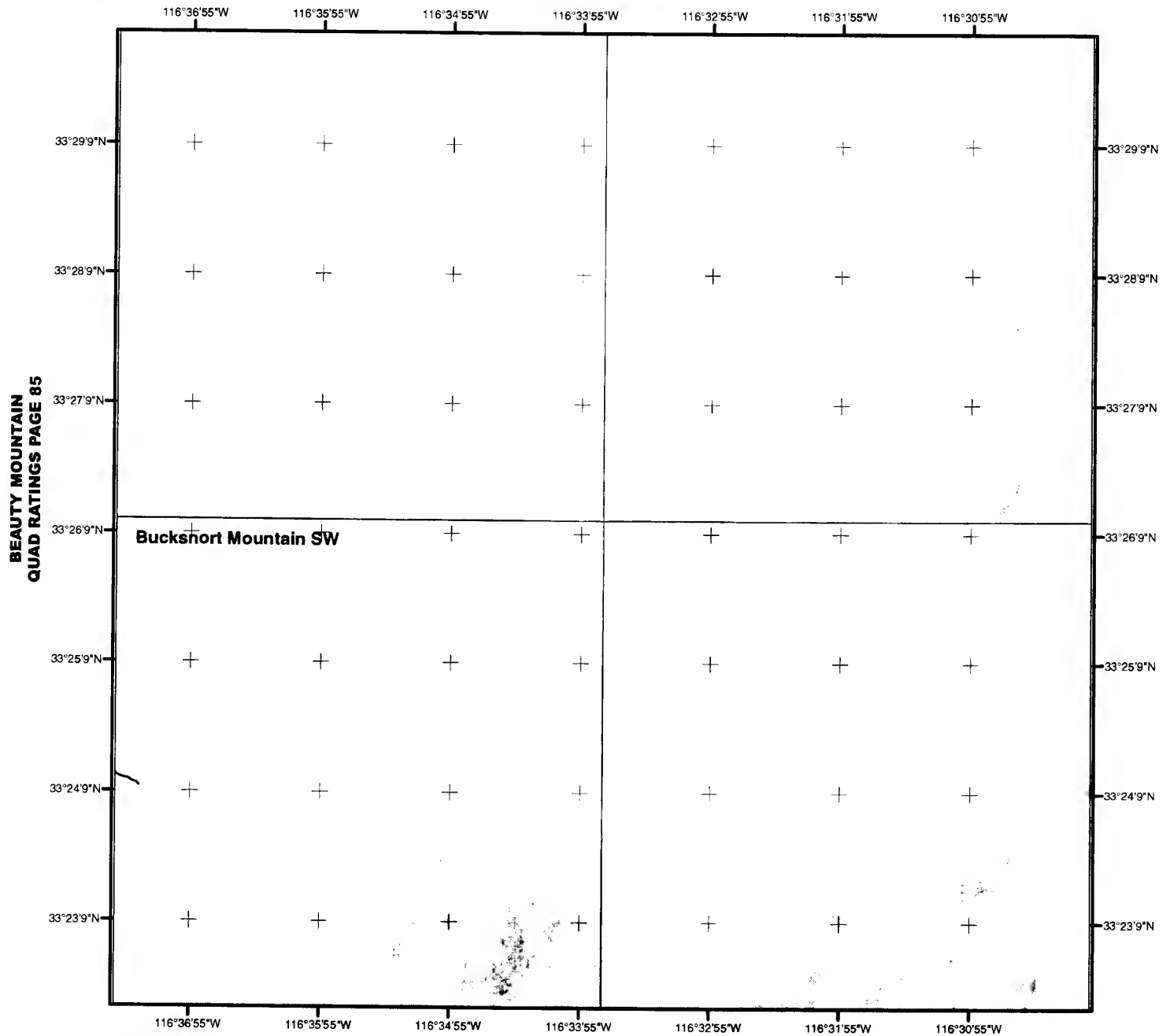


# Bucksnort Mountain Quadrangle

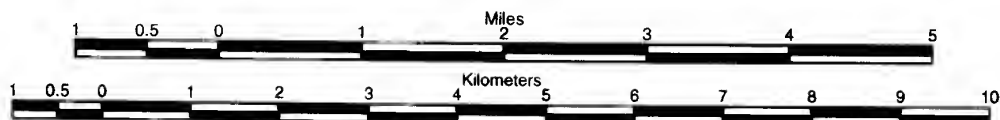
## Regulatory Probability Ratings for Aquatic Resources

ANZA  
QUAD RATINGS PAGE 37

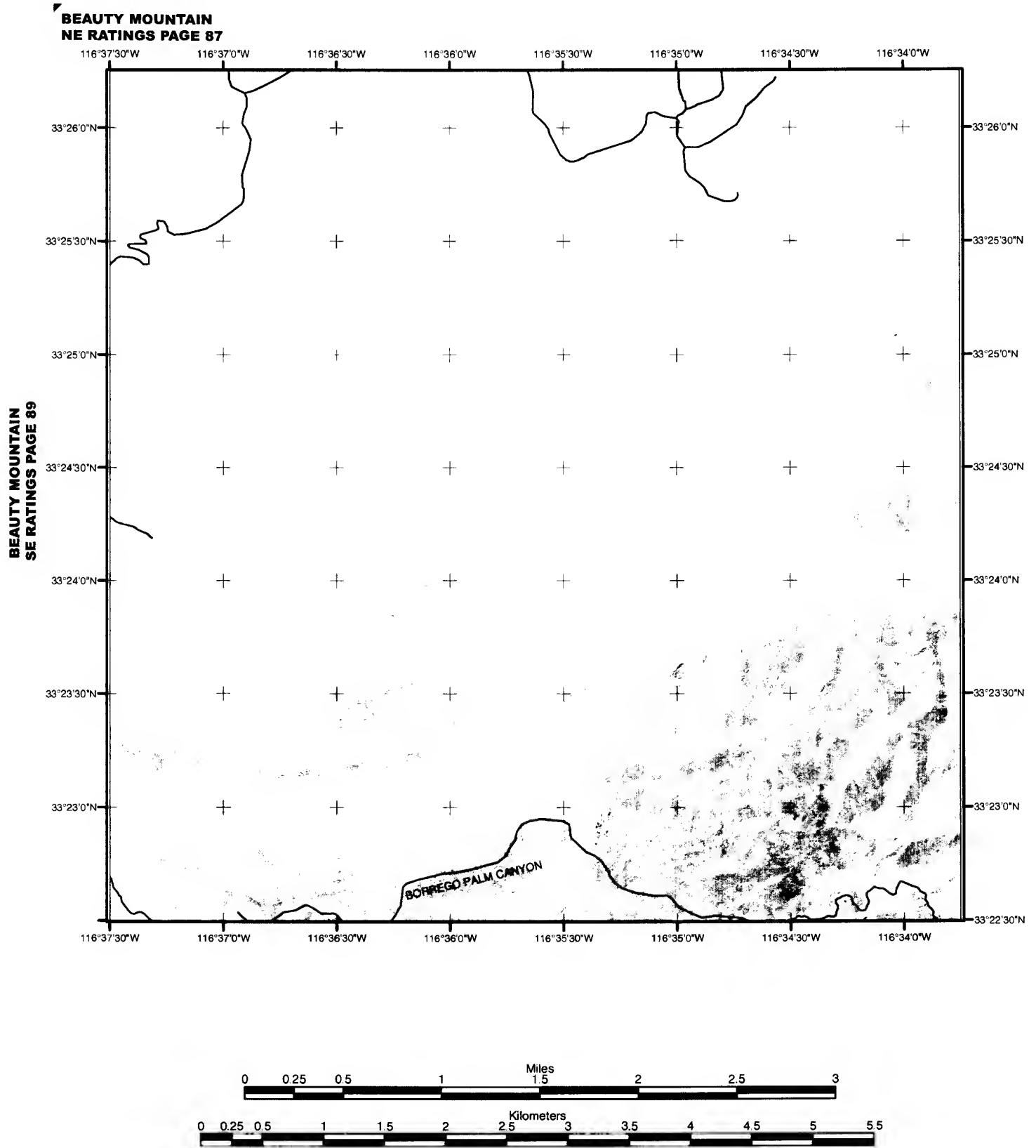
BUTTERFLY PEAK  
QUAD RATINGS PAGE 133



WARNER SPRINGS  
QUAD RATINGS PAGE 475

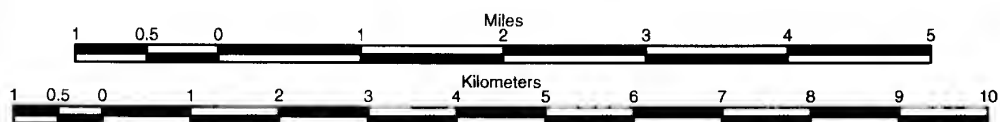
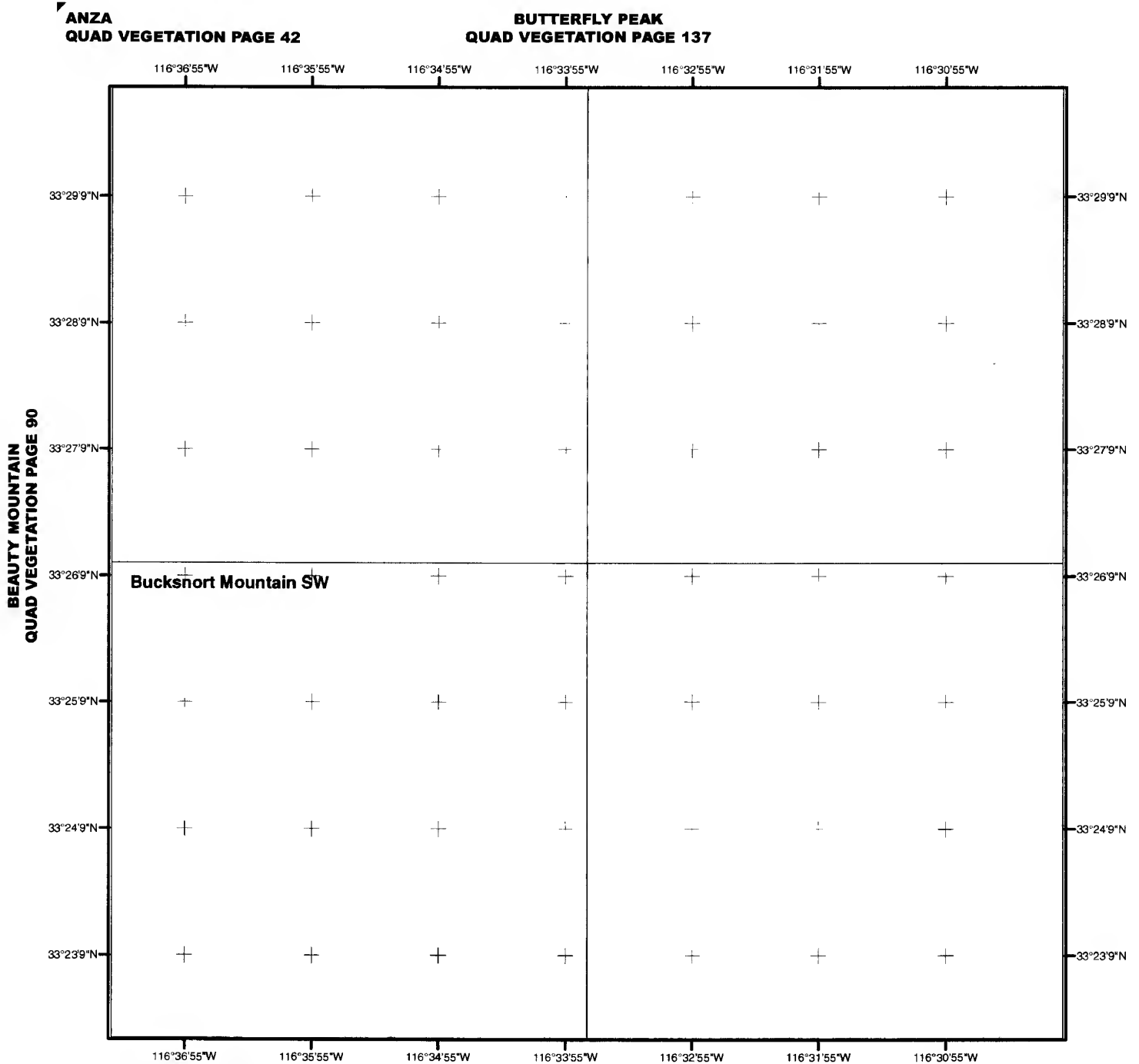


# Bucksnort Mountain South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

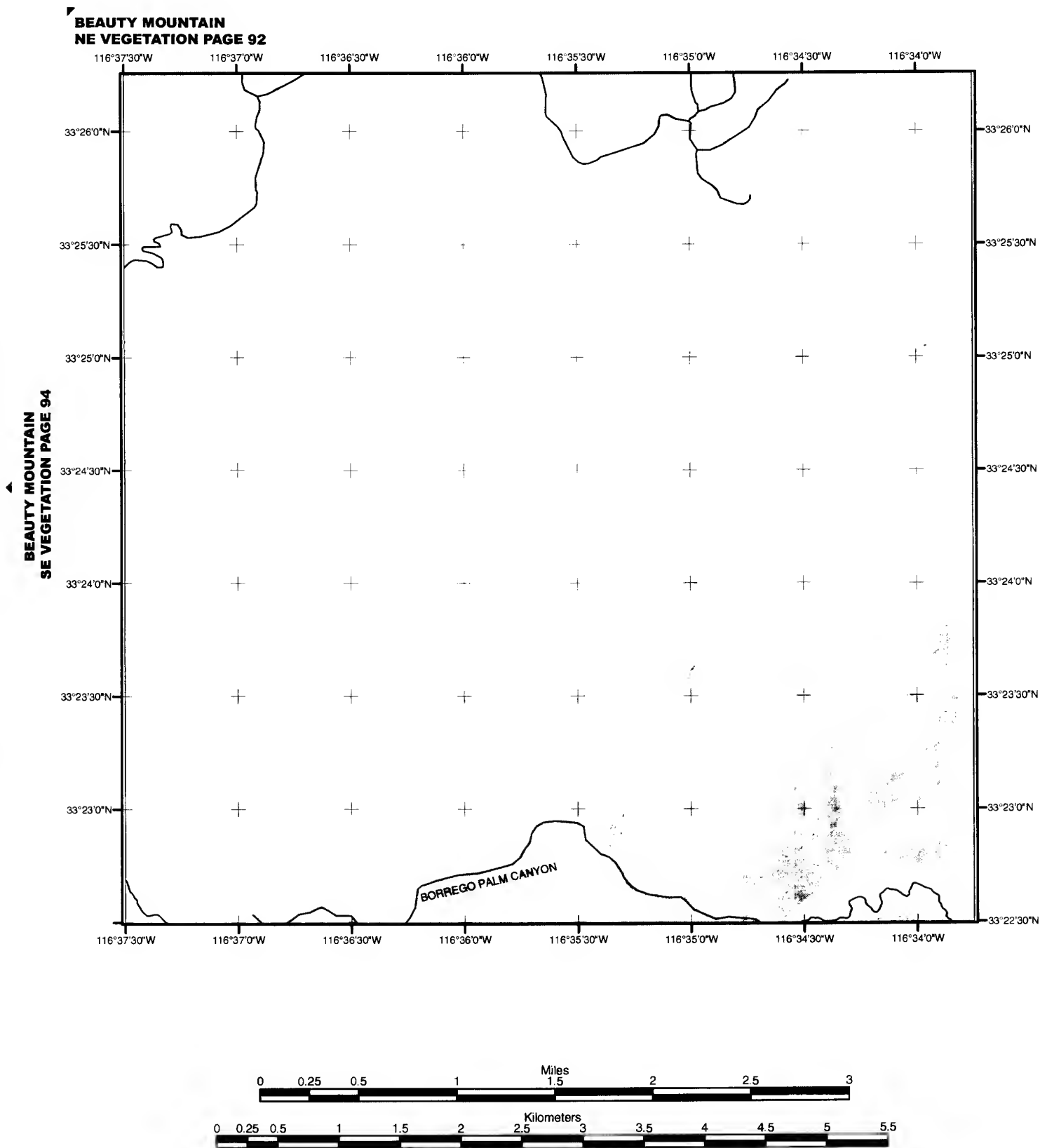


# Bucksnort Mountain Quadrangle

## Vegetation Species Association Units for Aquatic Resources



# Bucksnort Mountain South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



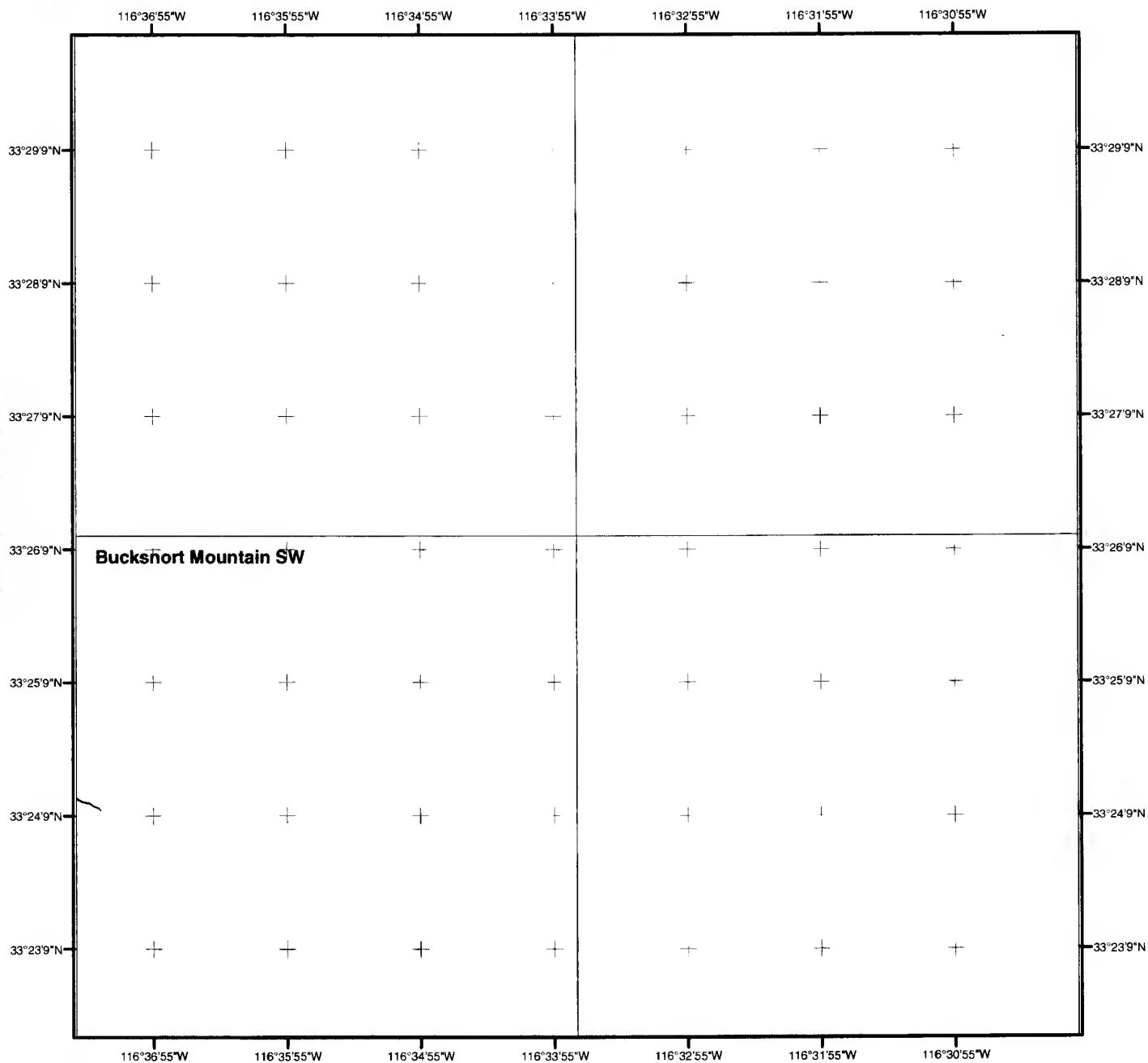
# Bucksnort Mountain Quadrangle

## Hydrogeomorphic Floodplain Units for Aquatic Resources

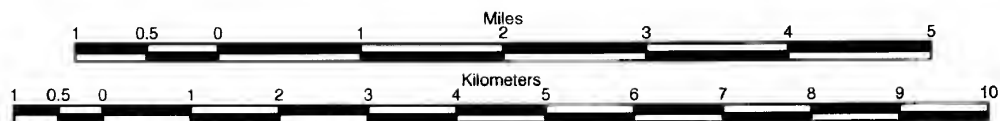
ANZA  
QUAD FLOODPLAIN PAGE 47

BUTTERFLY PEAK  
QUAD RATINGS PAGE 141

BEAUTY MOUNTAIN  
QUAD FLOODPLAIN PAGE 95

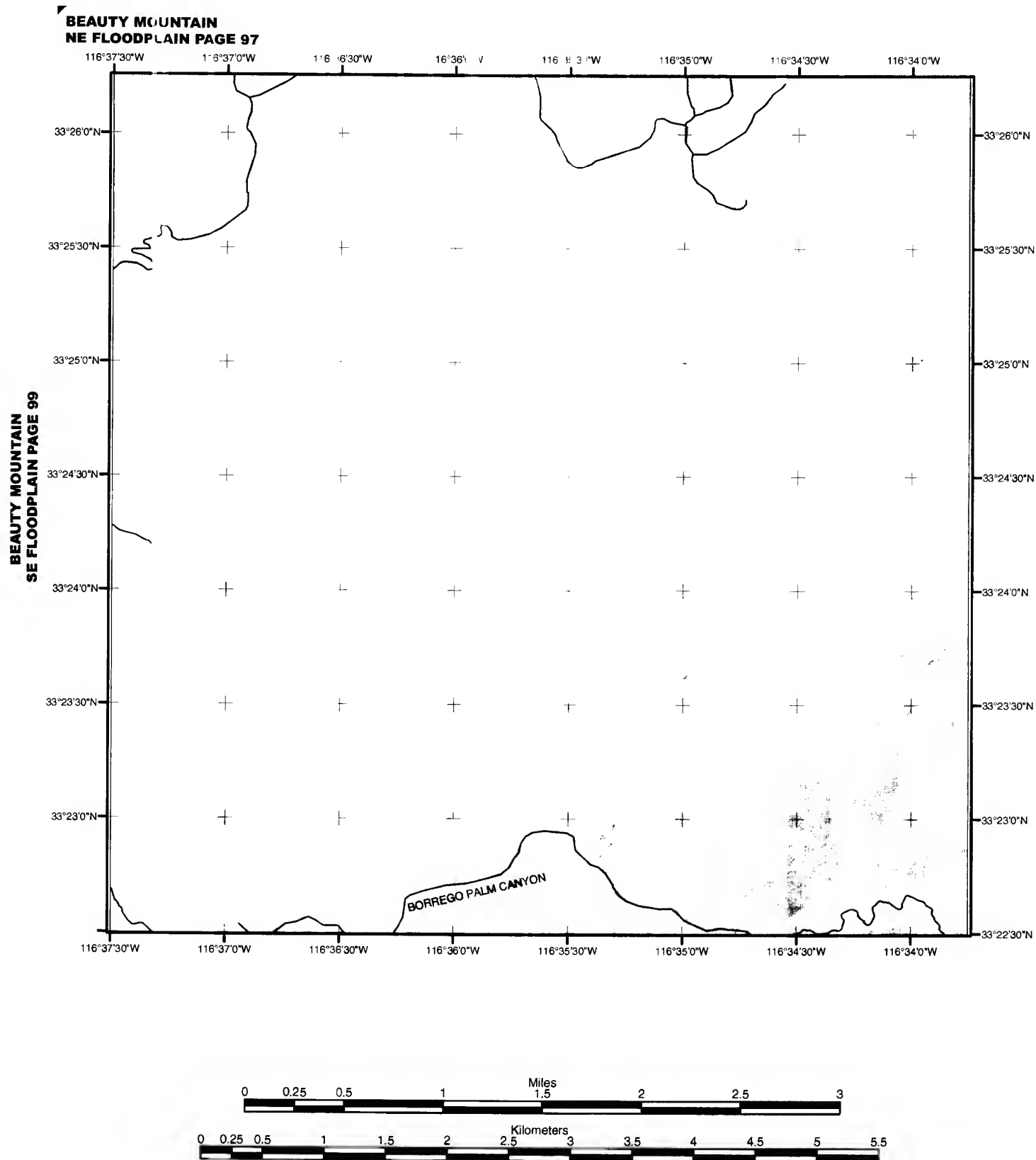


WARNER SPRINGS  
QUAD FLOODPLAIN PAGE 479





# Bucksnot Mountain South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

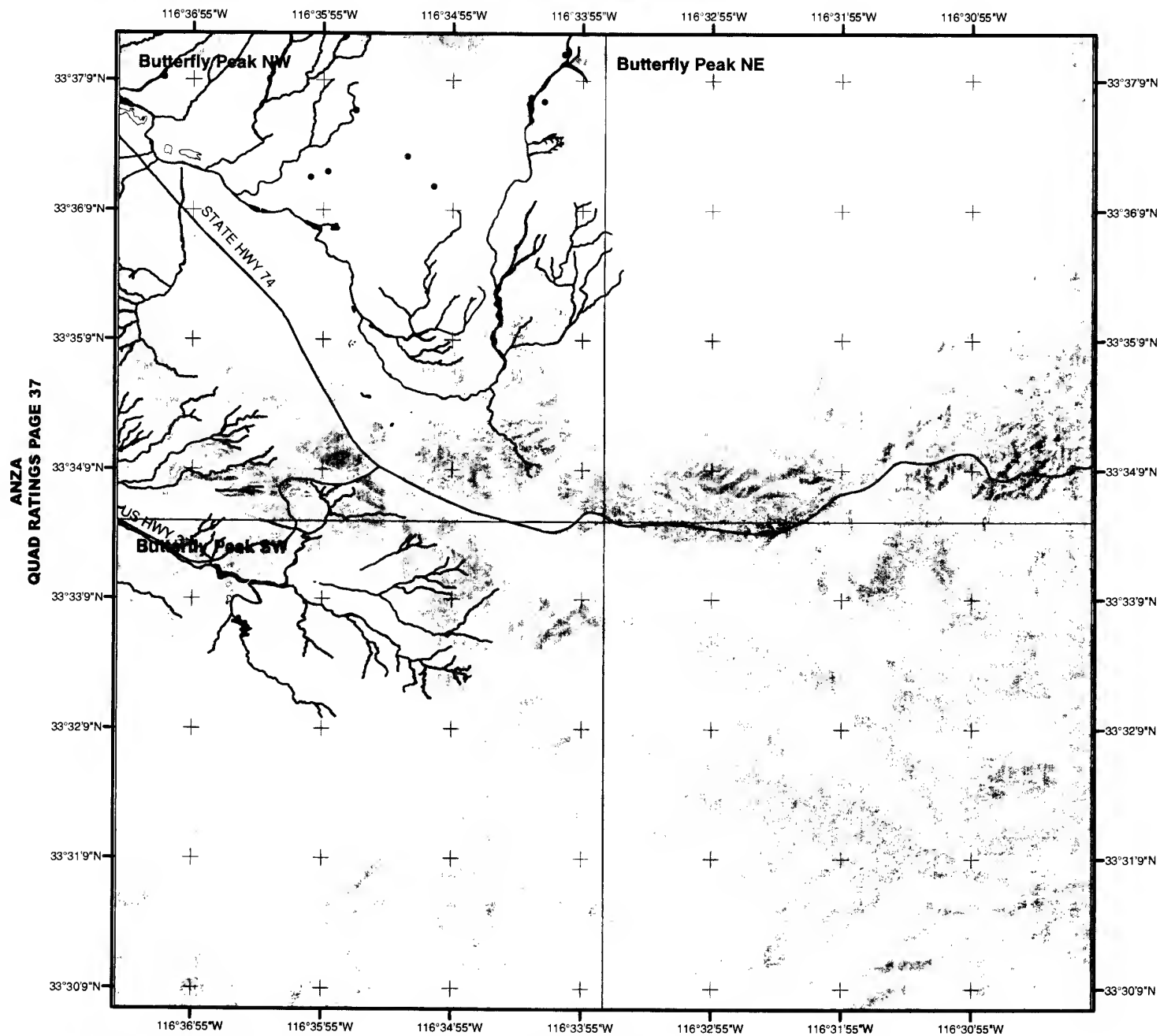


# Butterfly Peak Quadrangle

## Regulatory Probability Ratings for Aquatic Resources

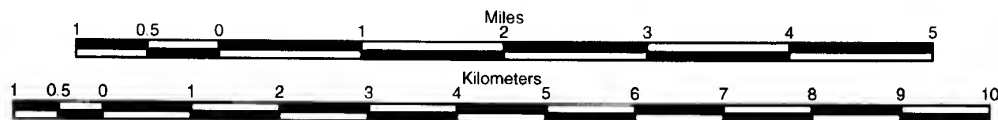
IDYLLWILD  
QUAD RATINGS PAGE 209

PALM VIEW PEAK  
QUAD RATINGS PAGE 289

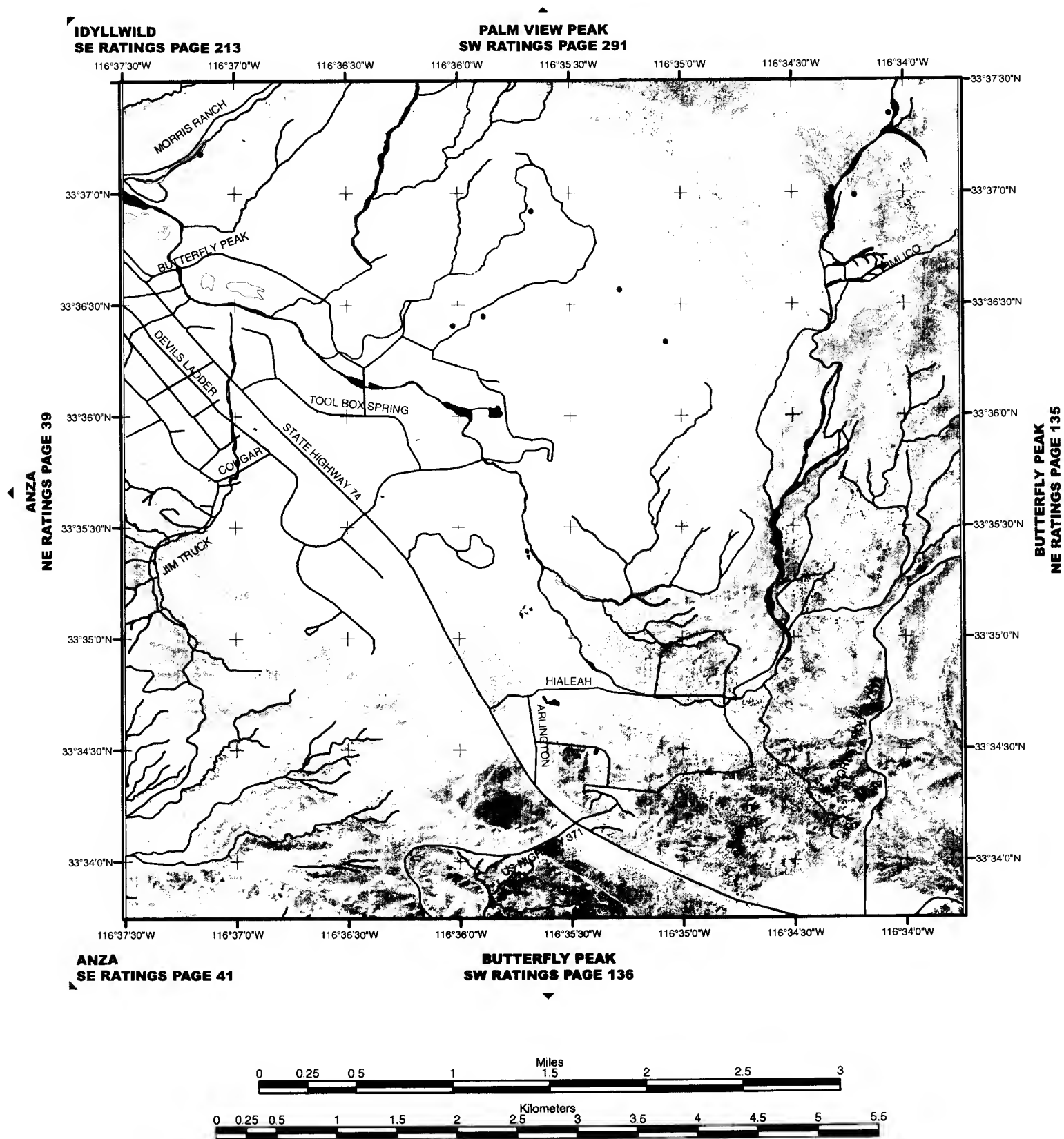


BEAUTY MOUNTAIN  
QUAD RATINGS PAGE 85

BUCKSNORT MOUNTAIN  
QUAD RATINGS PAGE 127

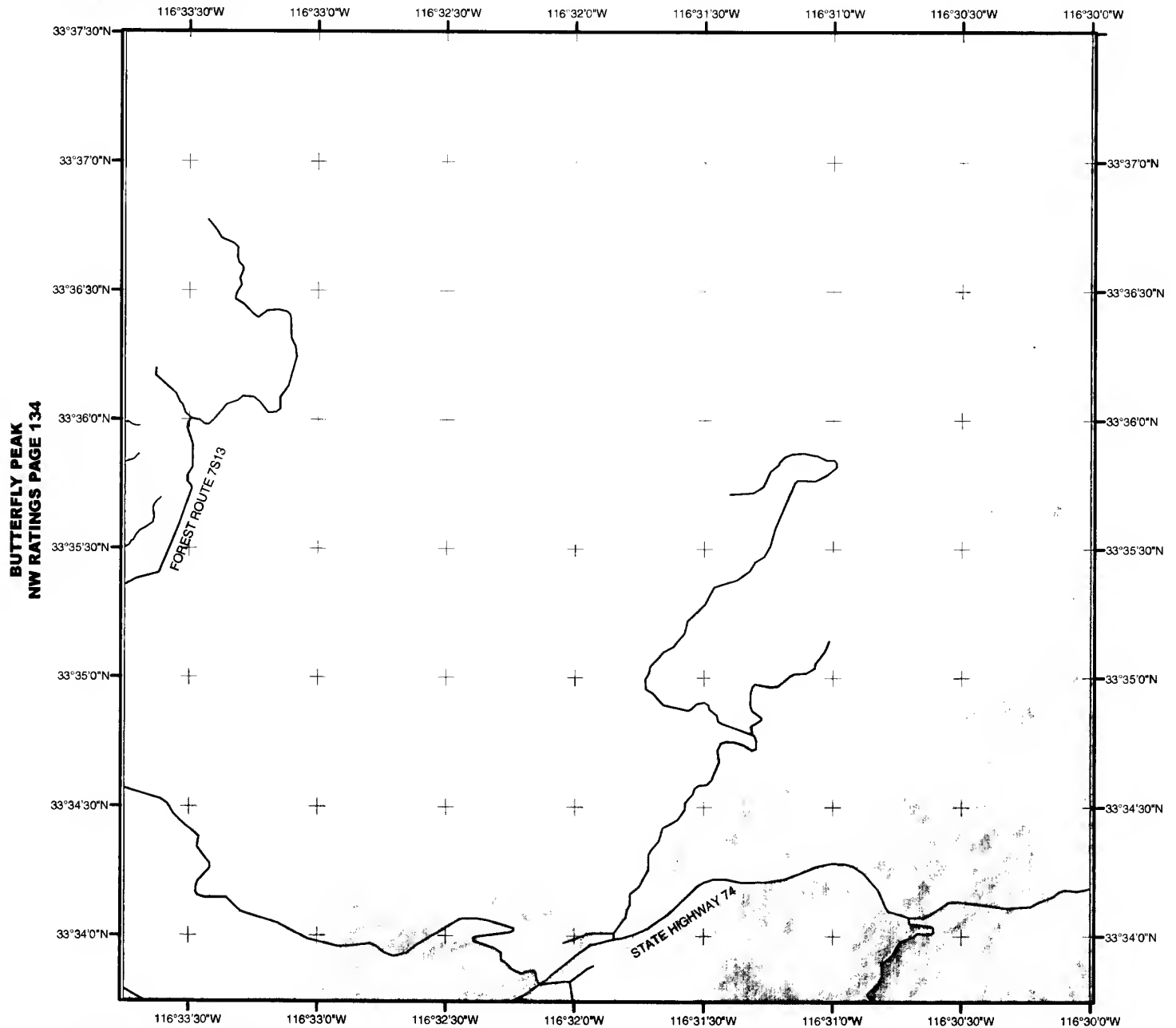


# Butterfly Peak North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



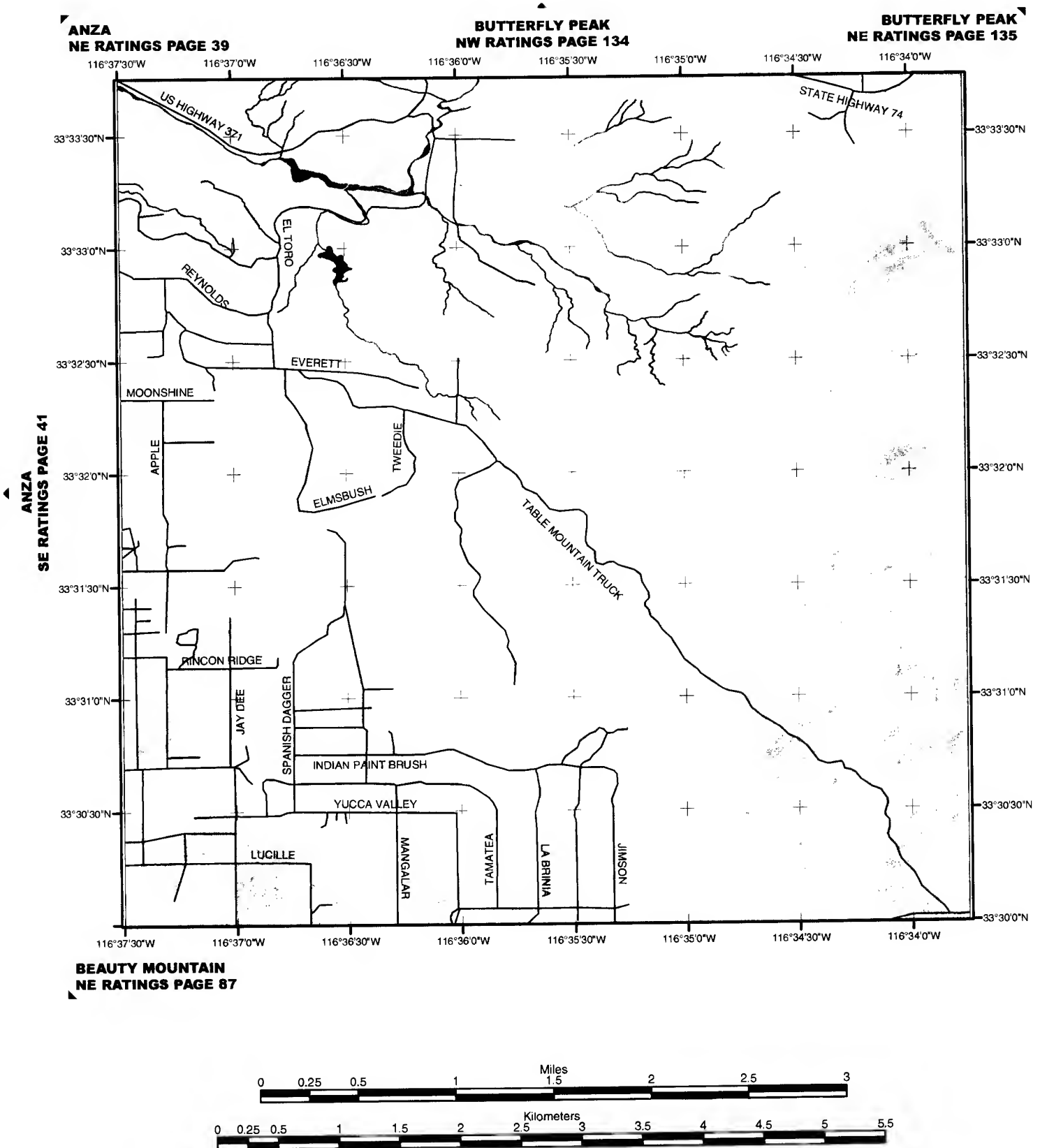
# Butterfly Peak North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

PALM VIEW PEAK  
SW RATINGS PAGE 291



BUTTERFLY PEAK  
SW RATINGS PAGE 136

# Butterfly Peak South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

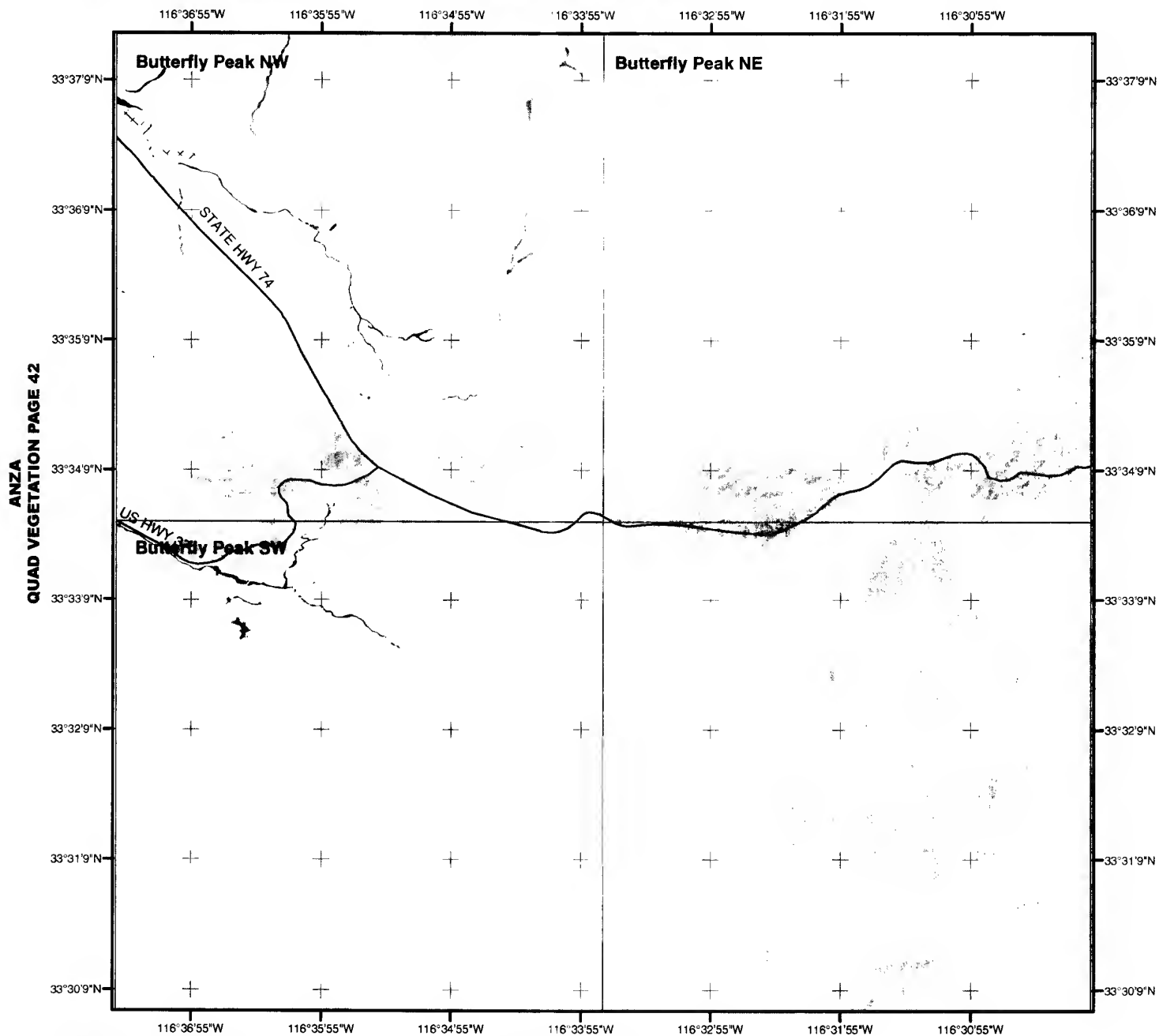


# Butterfly Peak Quadrangle

## Vegetation Species Association Units for Aquatic Resources

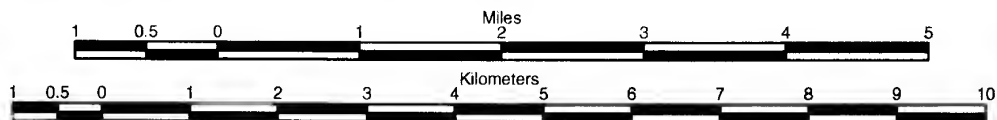
IDYLLWILD  
QUAD VEGETATION PAGE 214

PALM VIEW PEAK  
QUAD VEGETATION PAGE 292

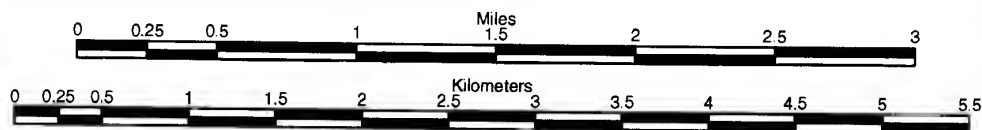
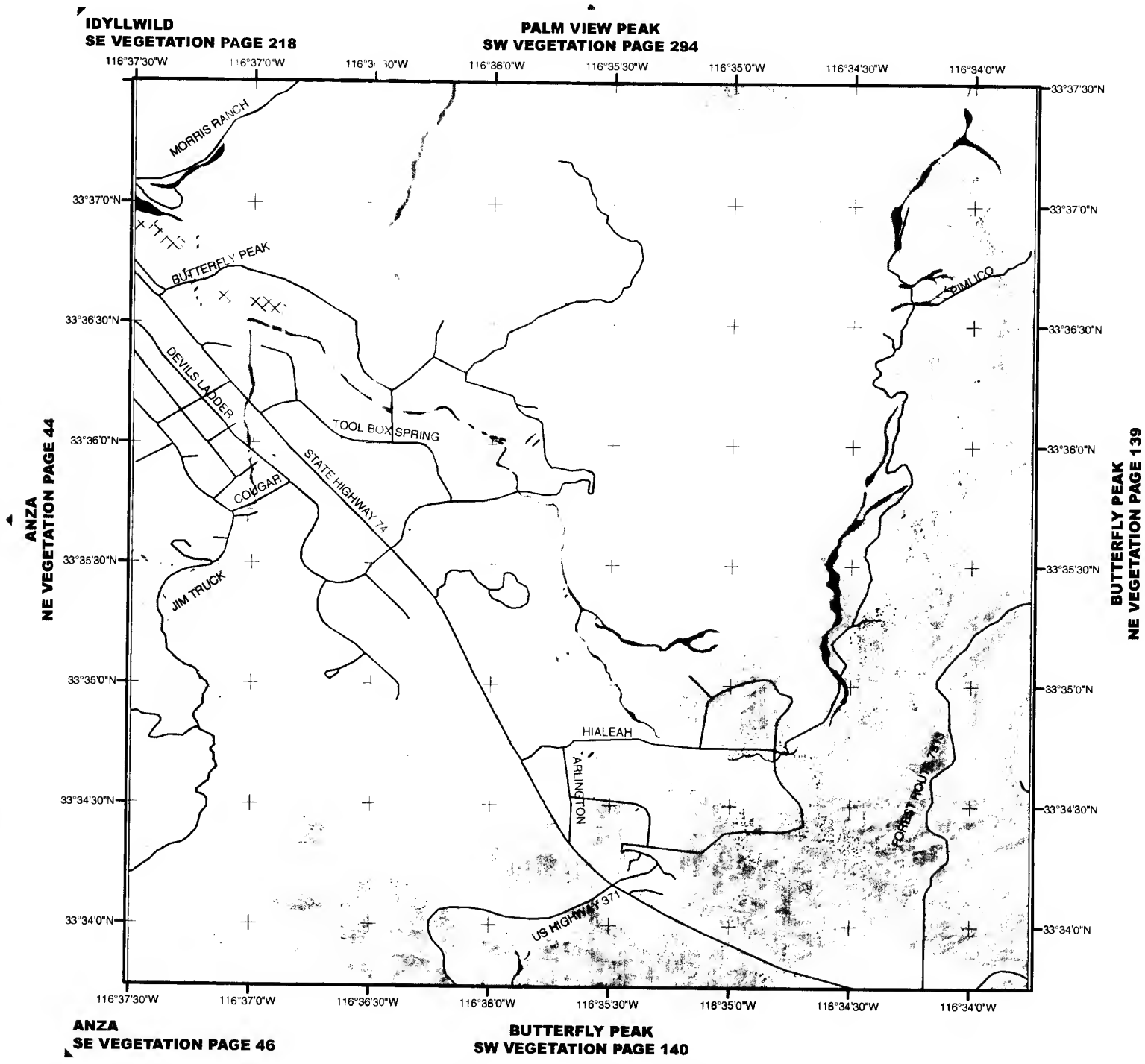


BEAUTY MOUNTAIN  
QUAD VEGETATION PAGE 90

BUCKSNORT MOUNTAIN  
QUAD VEGETATION PAGE 129



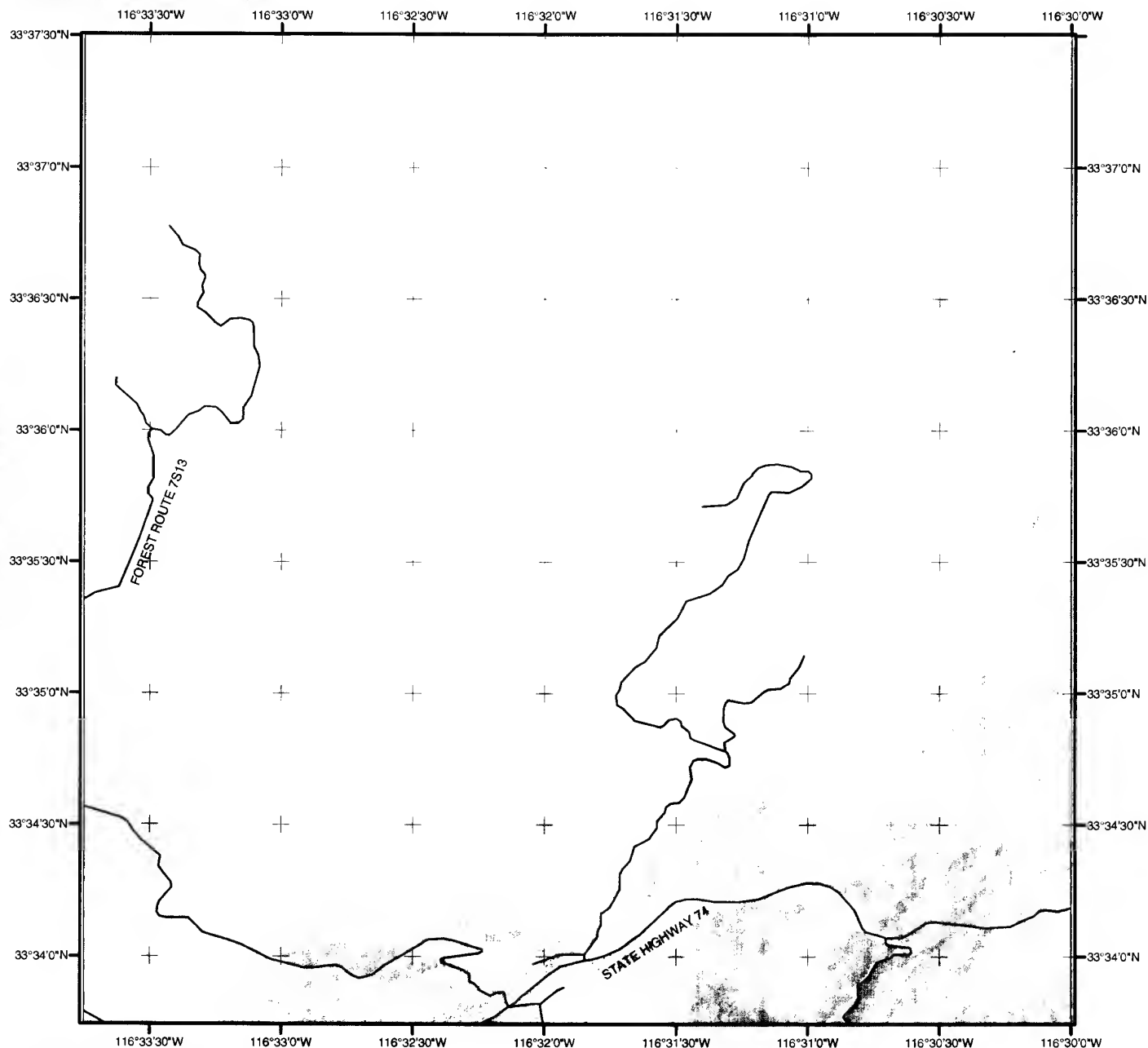
# Butterfly Peak North West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



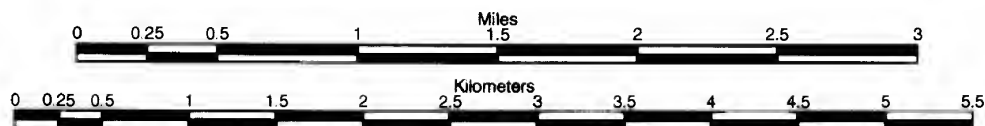
# Butterfly Peak North East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

**PALM VIEW PEAK  
SW VEGETATION PAGE 294**

**BUTTERFLY PEAK  
NW VEGETATION PAGE 138**

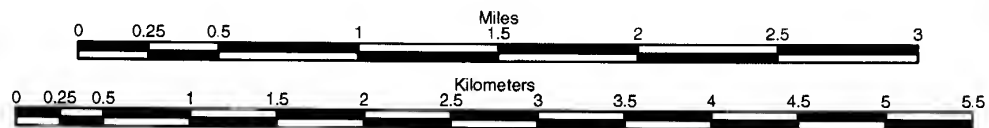
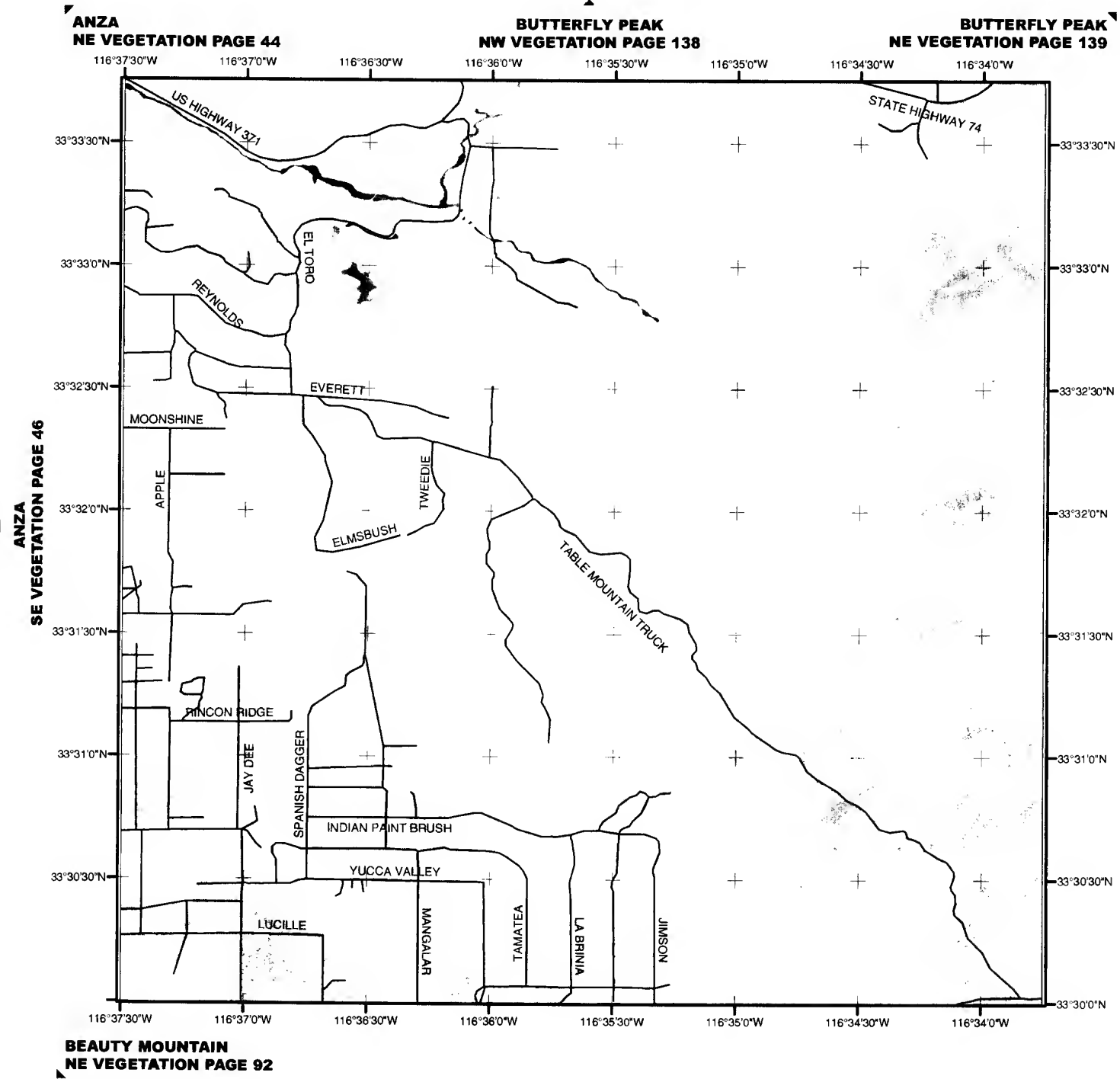


**BUTTERFLY PEAK  
SW VEGETATION PAGE 140**



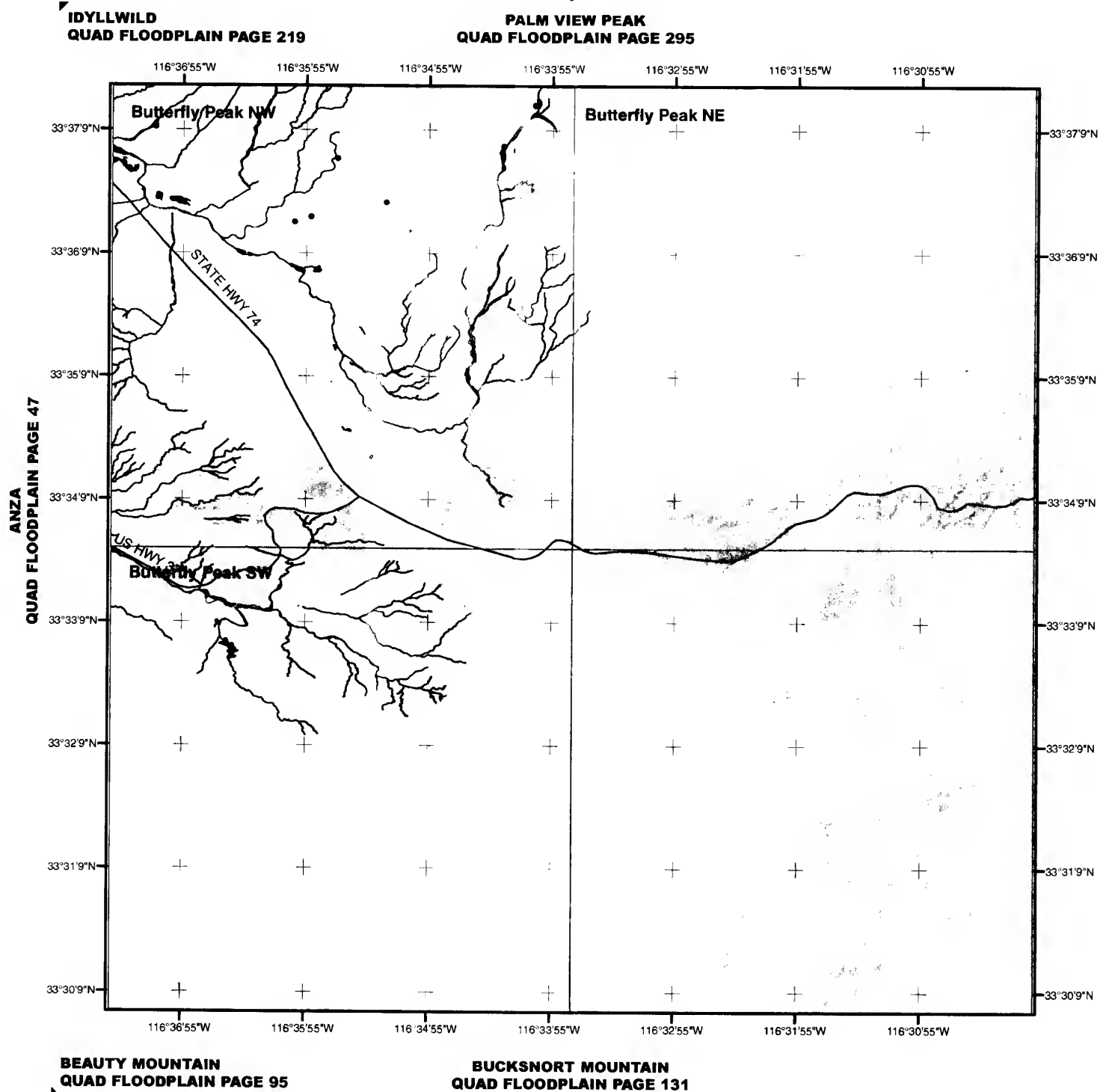


# Butterfly Peak South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

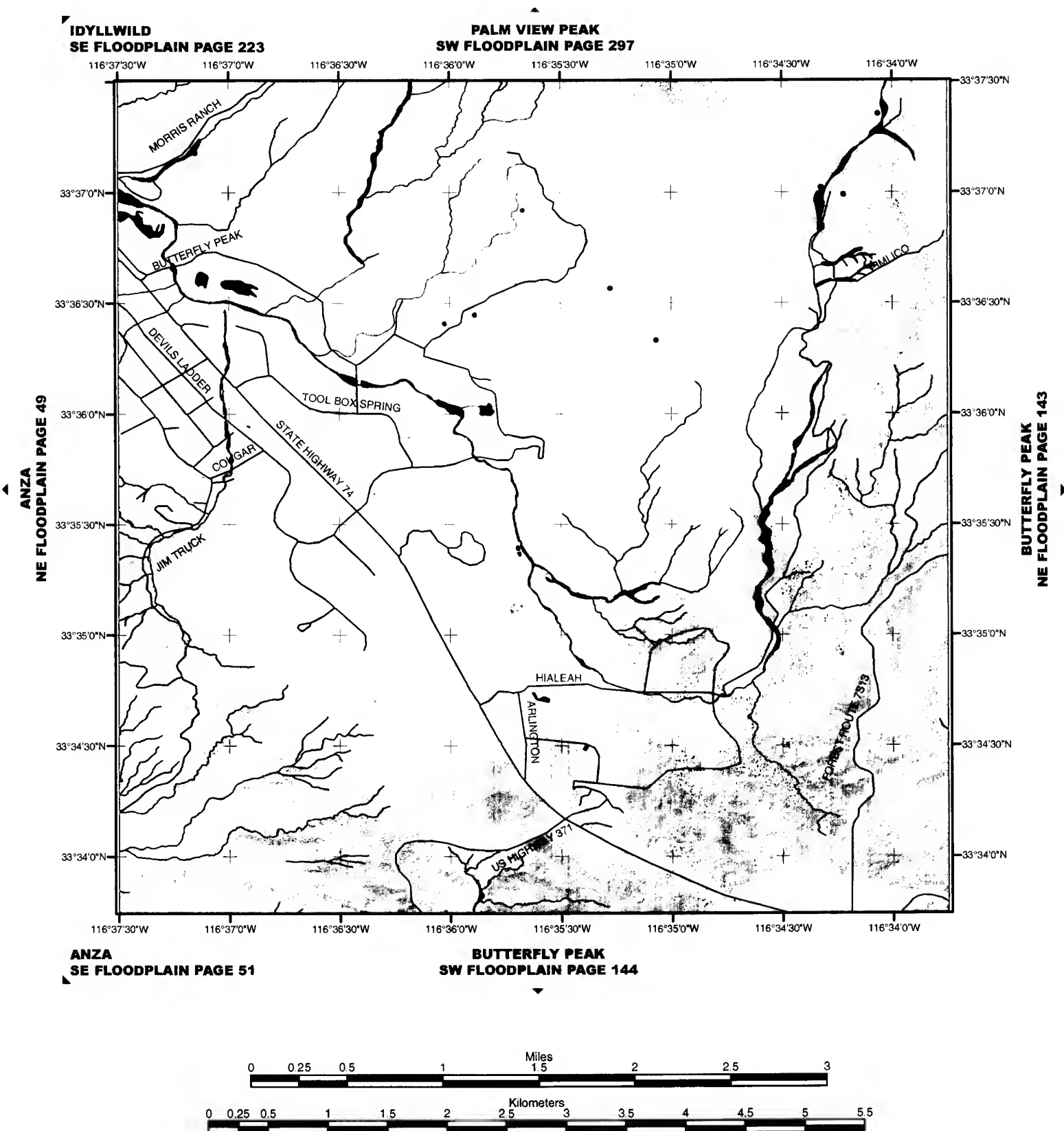


# Butterfly Peak Quadrangle

## Hydrogeomorphic Floodplain Units for Aquatic Resources

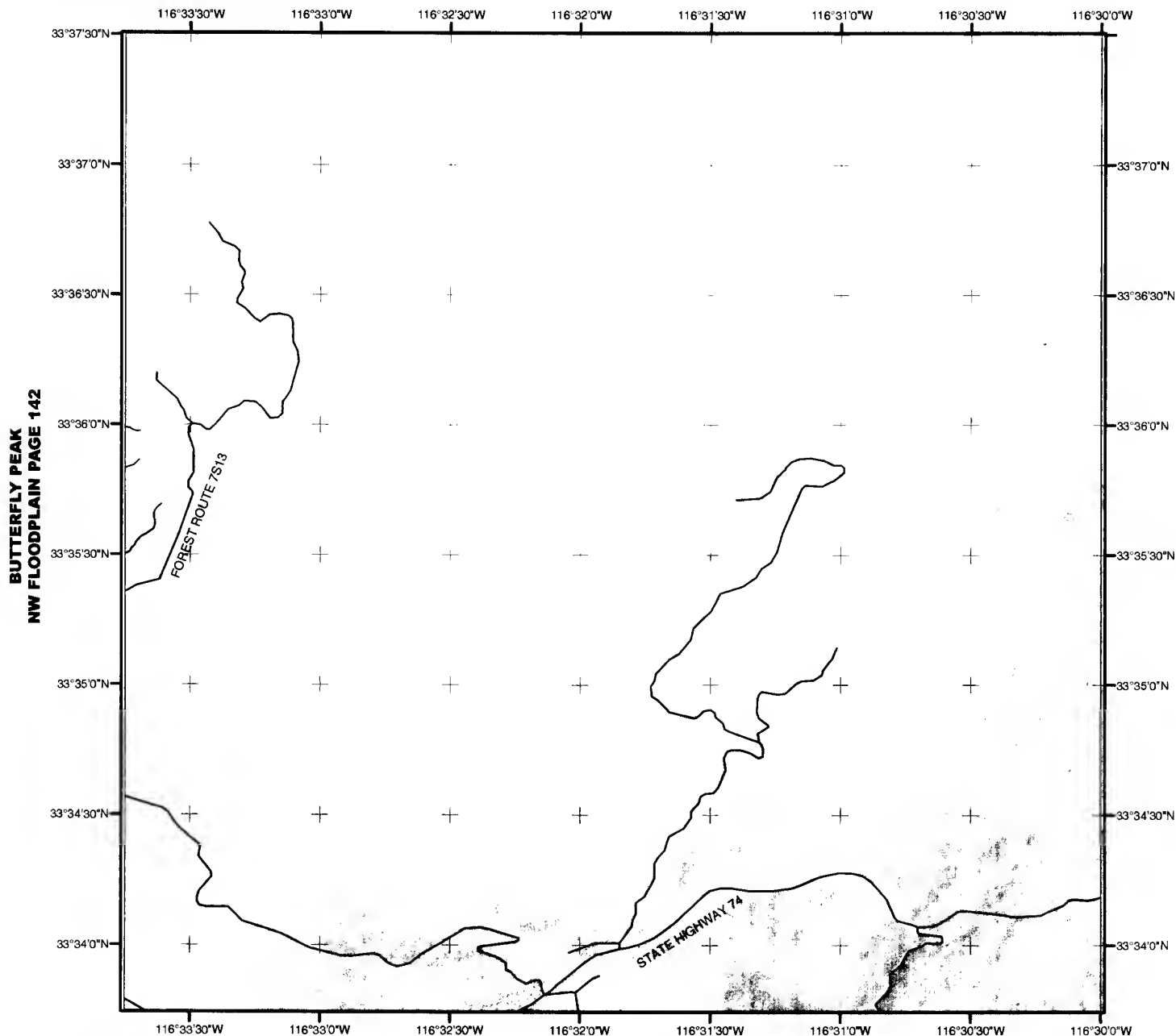


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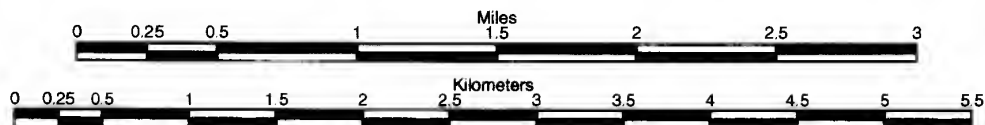


# Butterfly Peak North East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

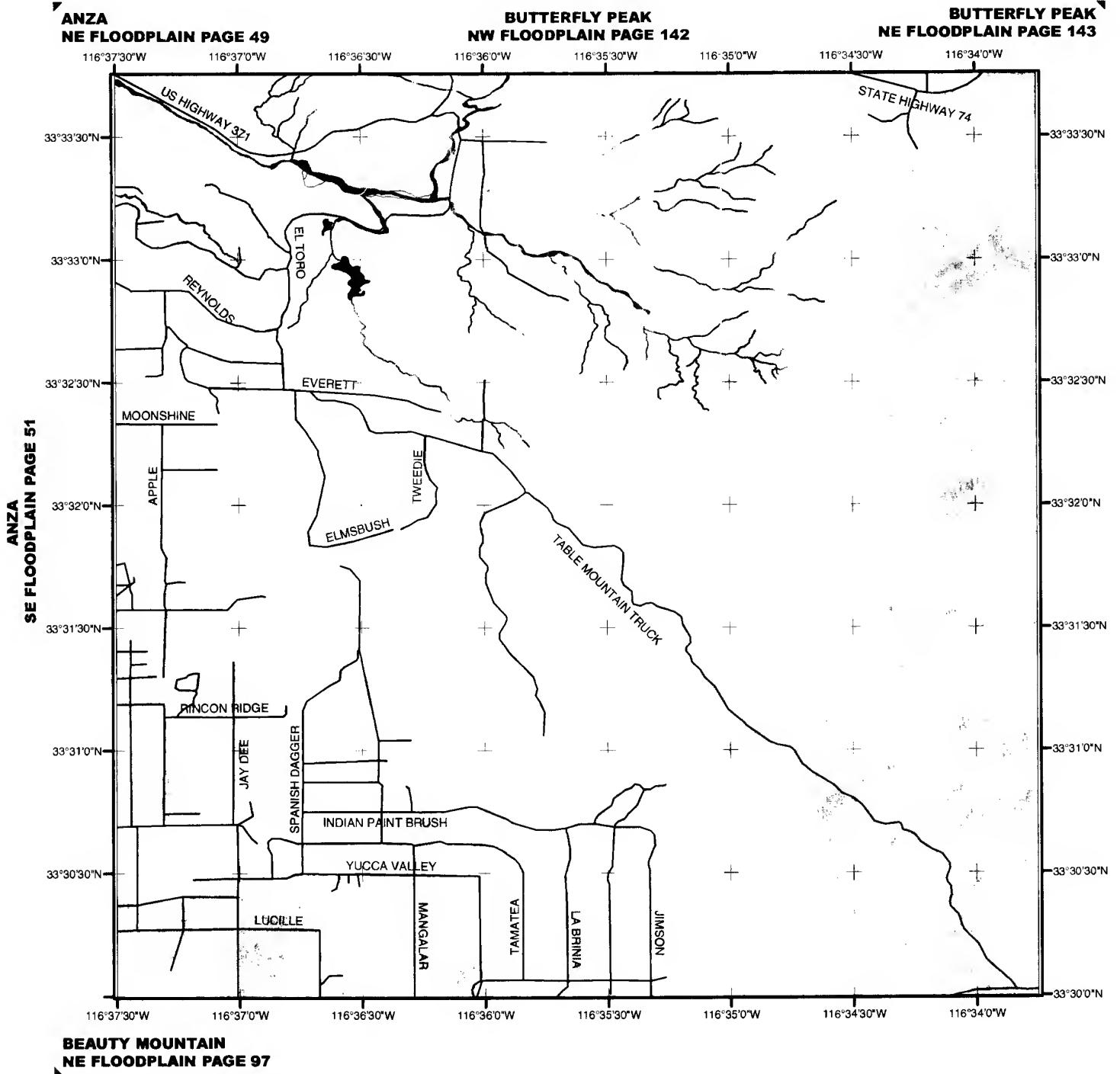
PALM VIEW PEAK  
SW FLOODPLAIN PAGE 297



BUTTERFLY PEAK  
SW FLOODPLAIN PAGE 144

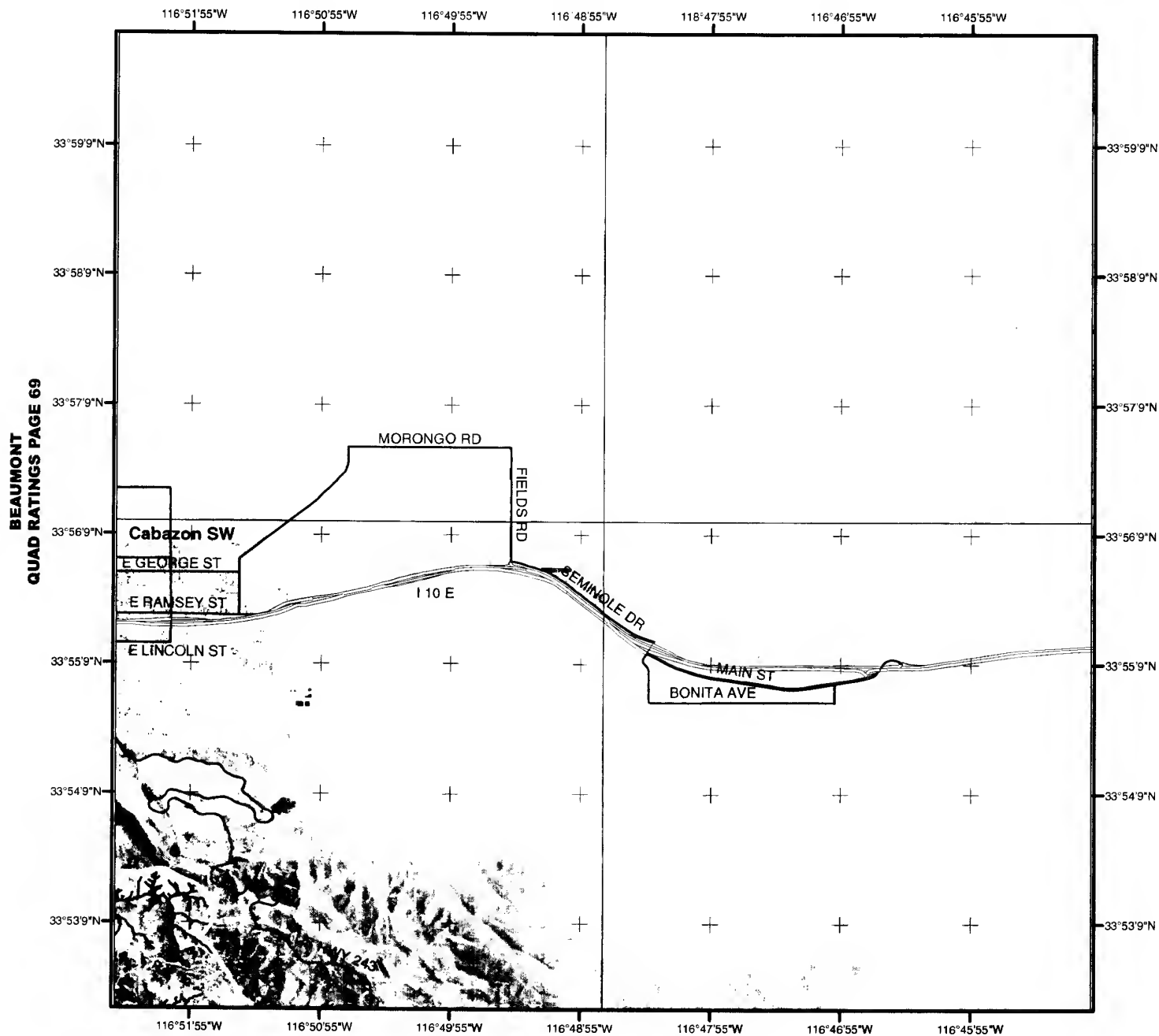


# Butterfly Peak South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



# Cabazon Quadrangle

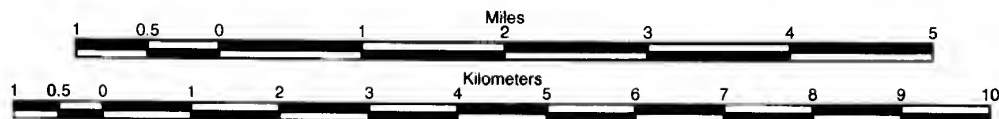
## Regulatory Probability Ratings for Aquatic Resources



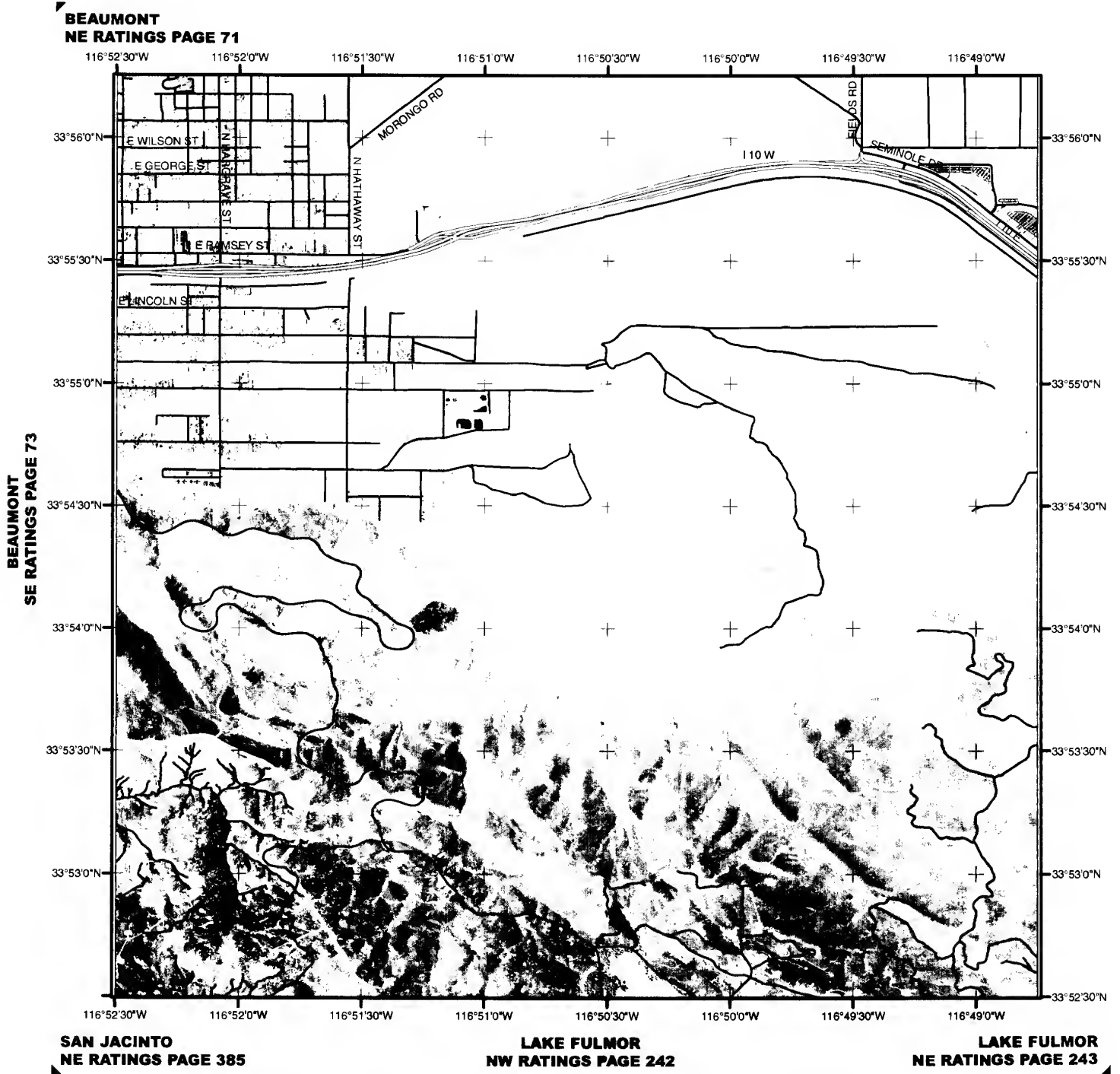
**SAN JACINTO  
QUAD RATINGS PAGE 383**

**LAKE FULMOR  
QUAD RATINGS PAGE 241**

**SAN JACINTO PEAK  
QUAD RATINGS PAGE 399**

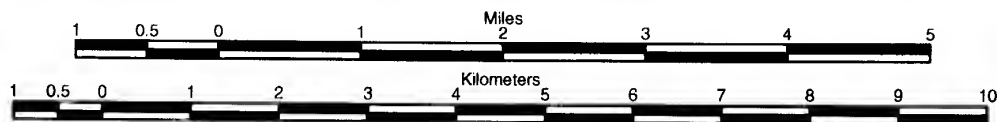
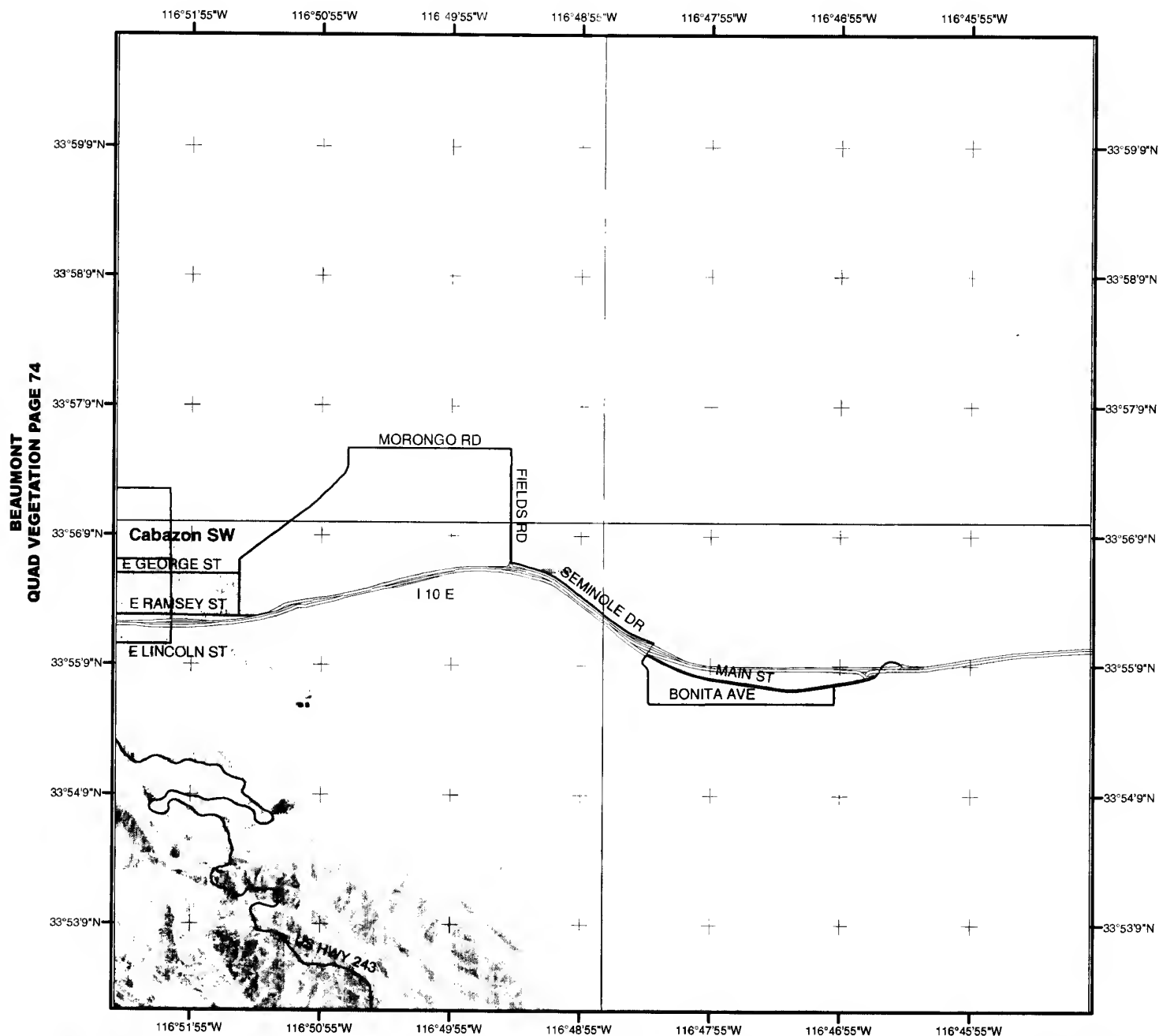


# Cabazon South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



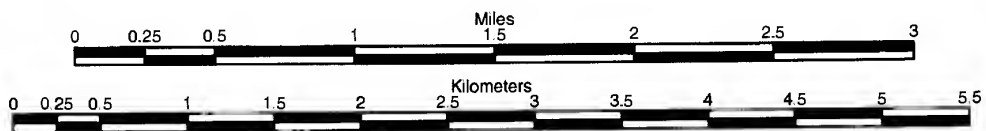
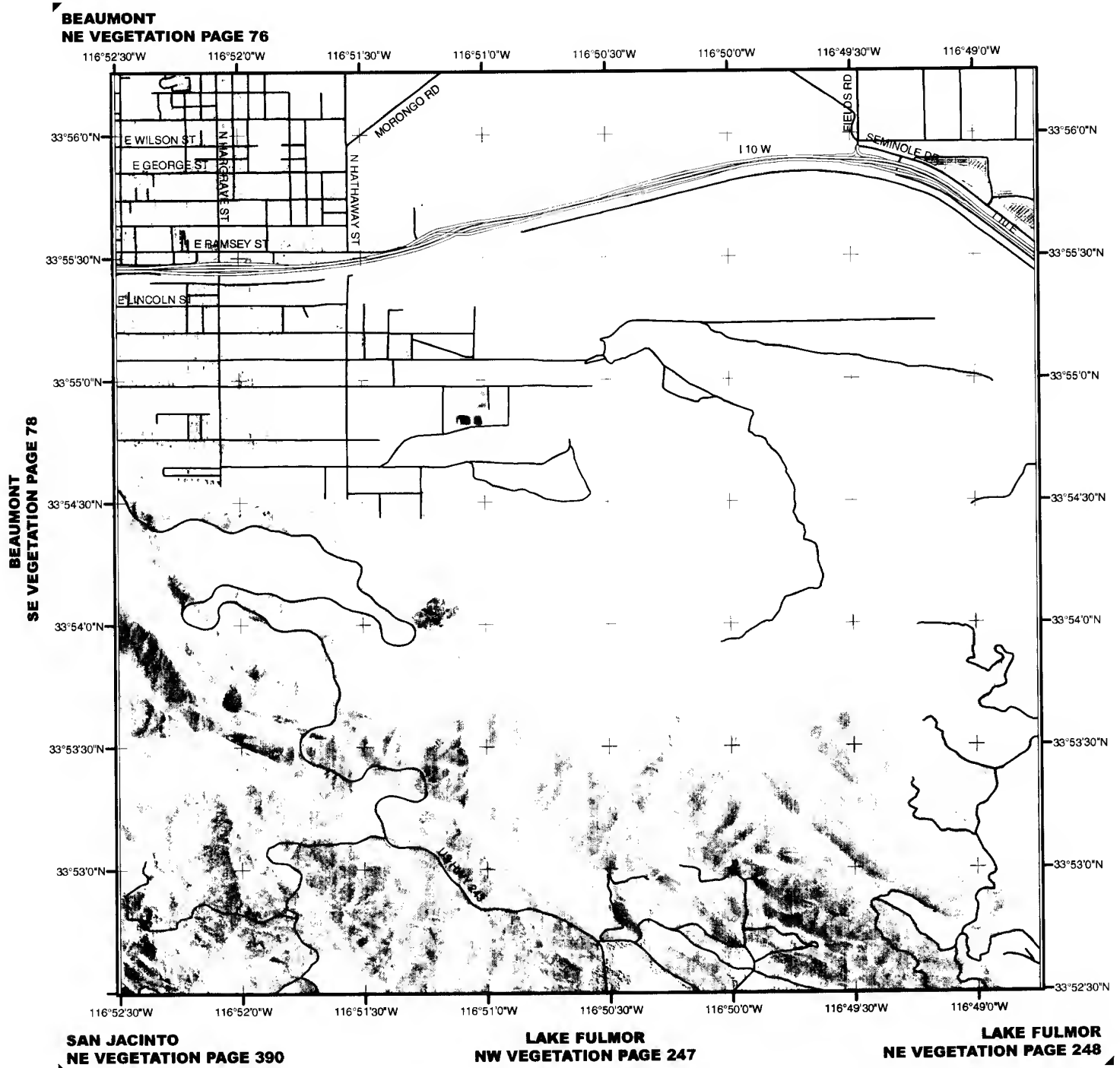
# Cabazon Quadrangle

## Vegetation Species Association Units for Aquatic Resources



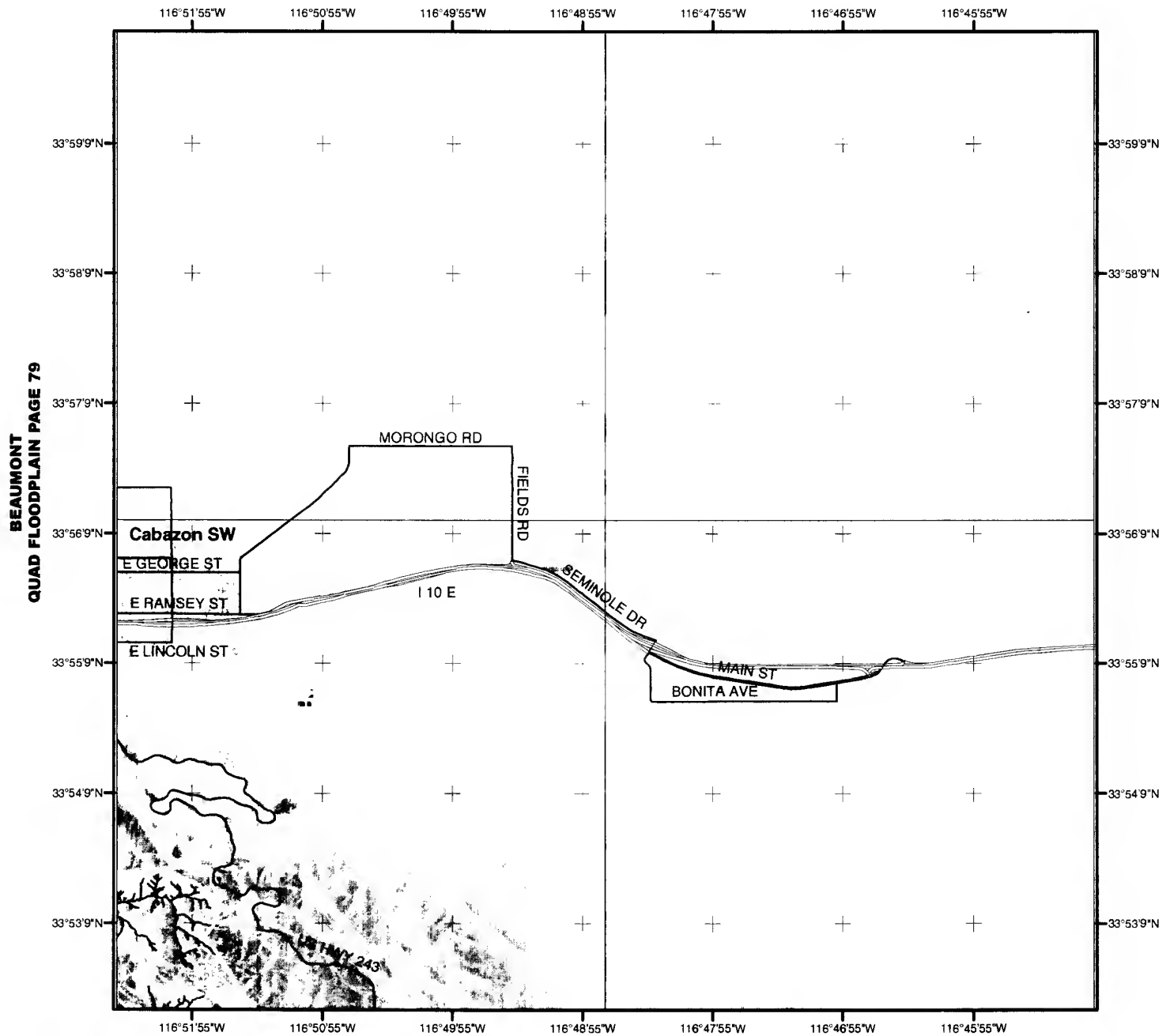


# Cabazon South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



# Cabazon Quadrangle

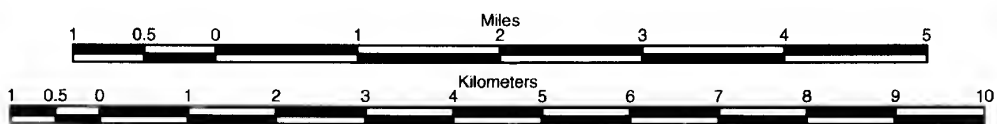
## Hydrogeomorphic Floodplain Units for Aquatic Resources



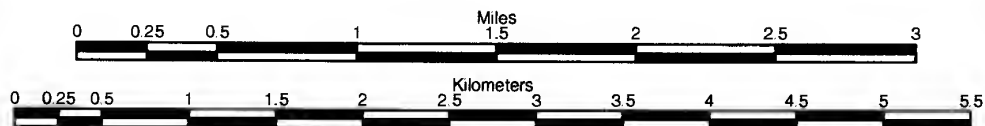
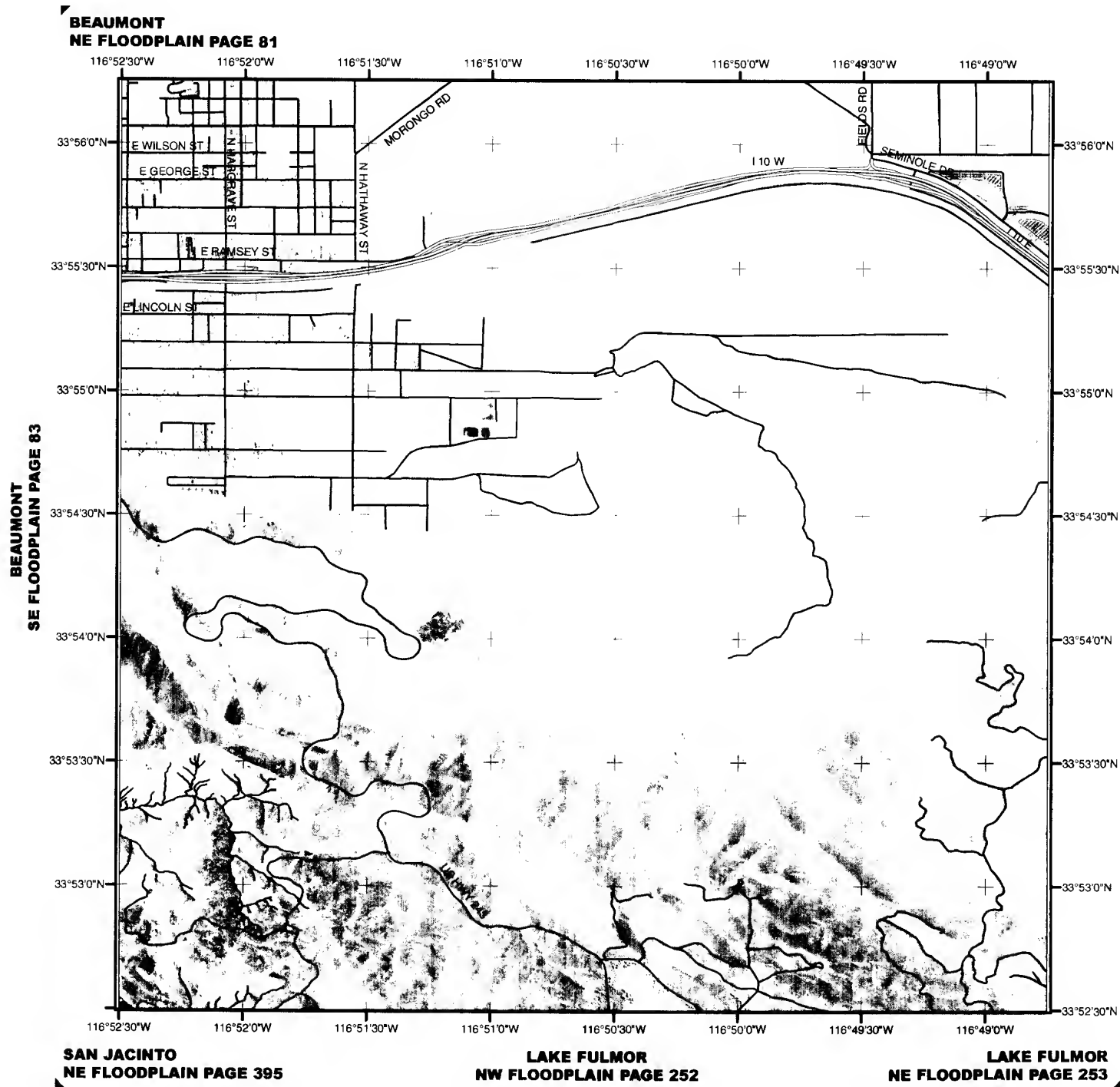
**SAN JACINTO**  
QUAD FLOODPLAIN PAGE 393

**LAKE FULMOR**  
QUAD FLOODPLAIN PAGE 251

**SAN JACINTO PEAK**  
QUAD FLOODPLAIN PAGE 409

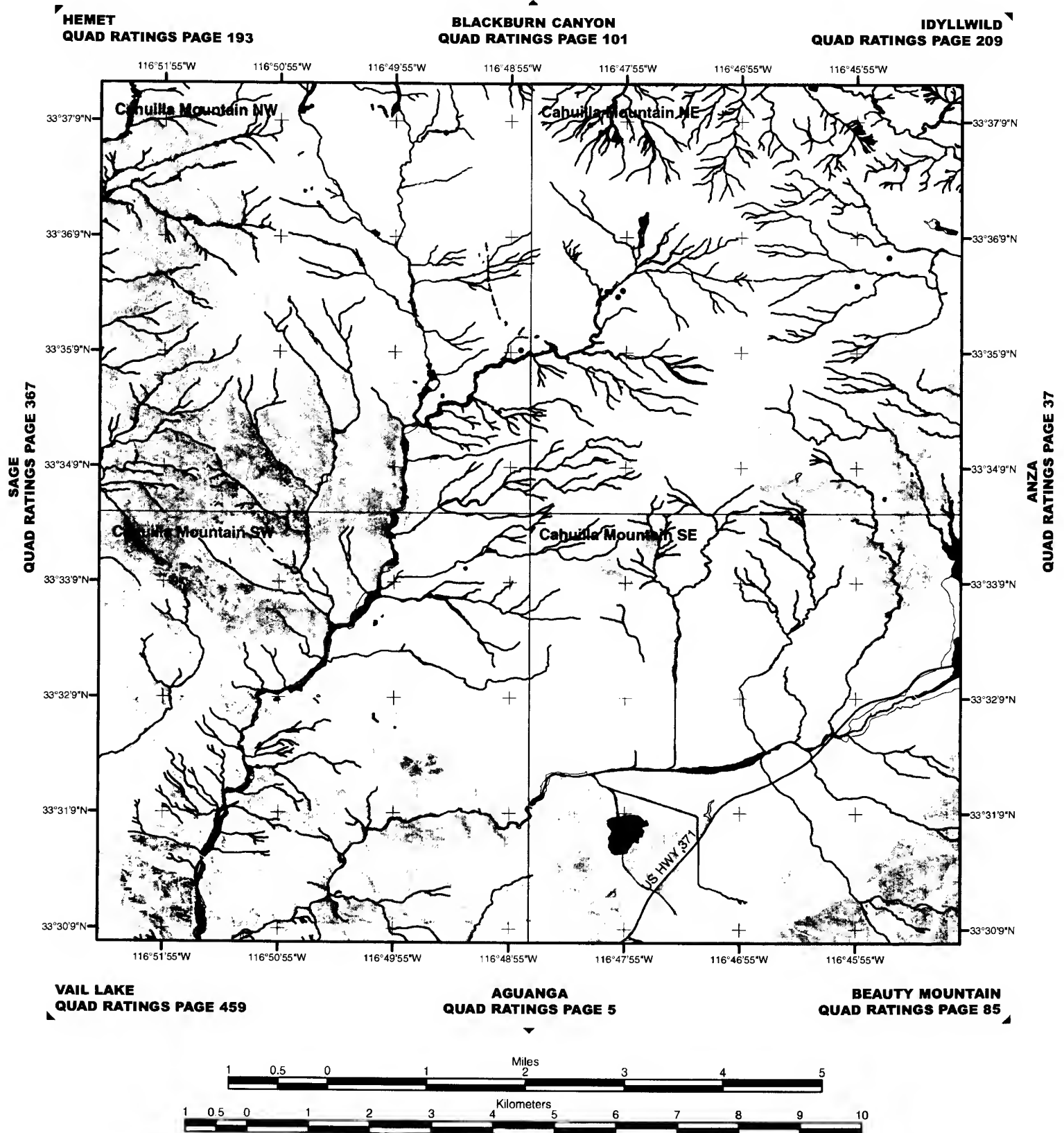


# Cabazon South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

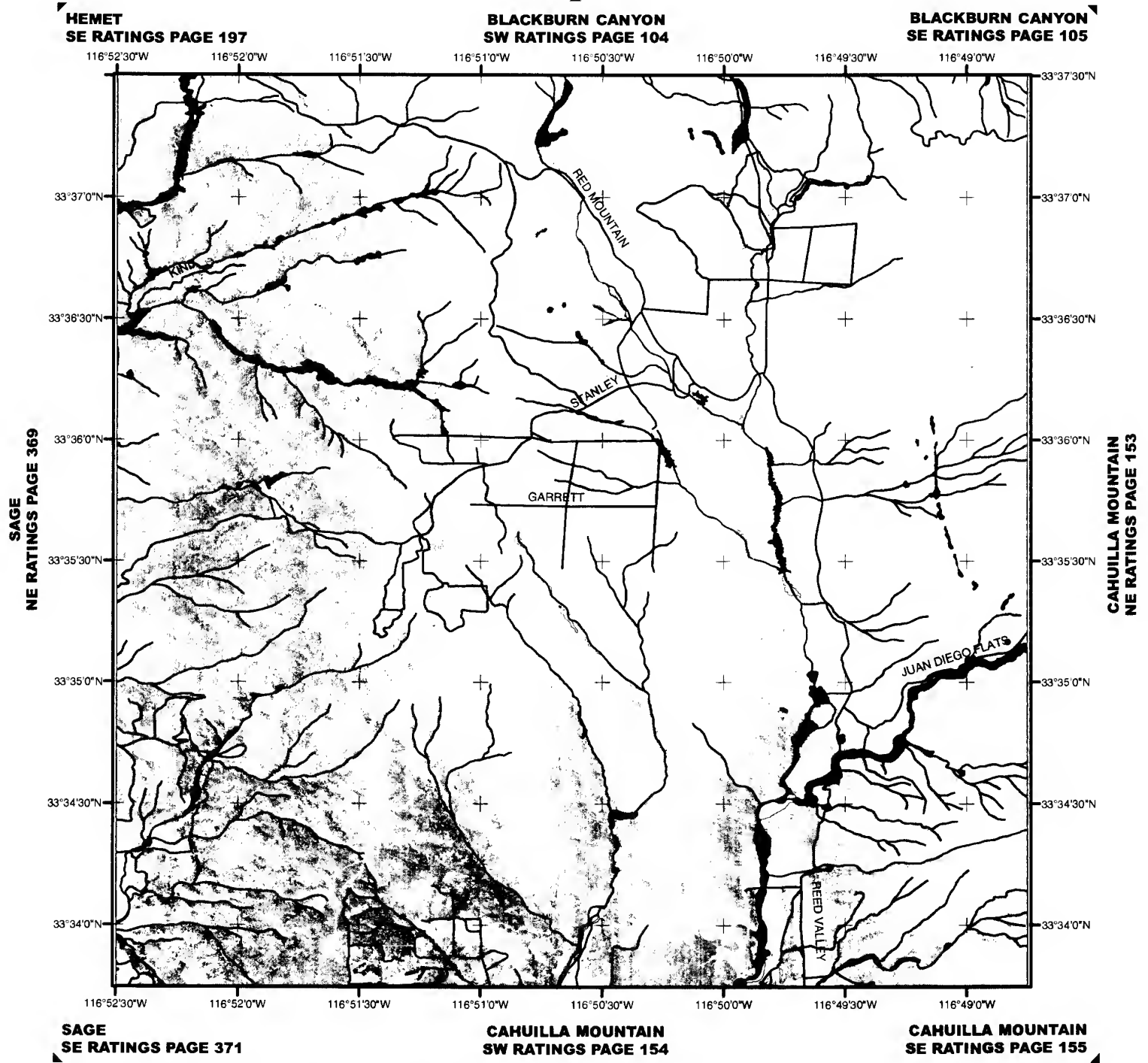


# Cahuilla Mountain Quadrangle

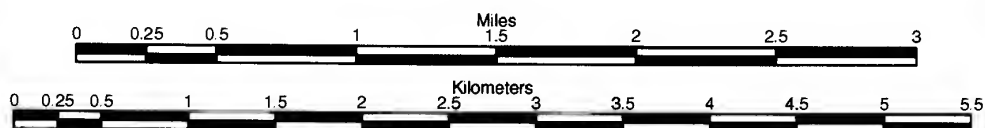
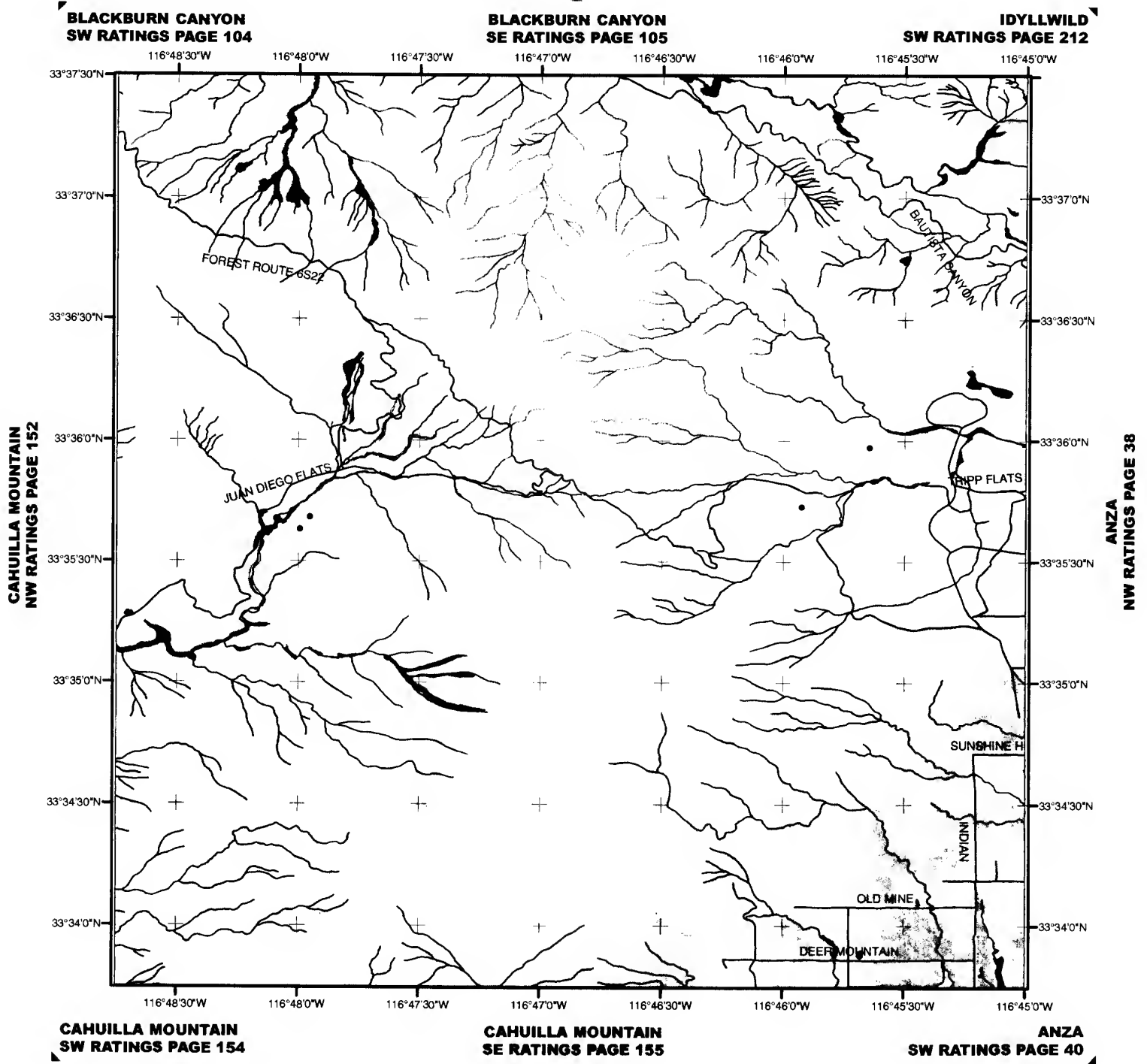
## Regulatory Probability Ratings for Aquatic Resources



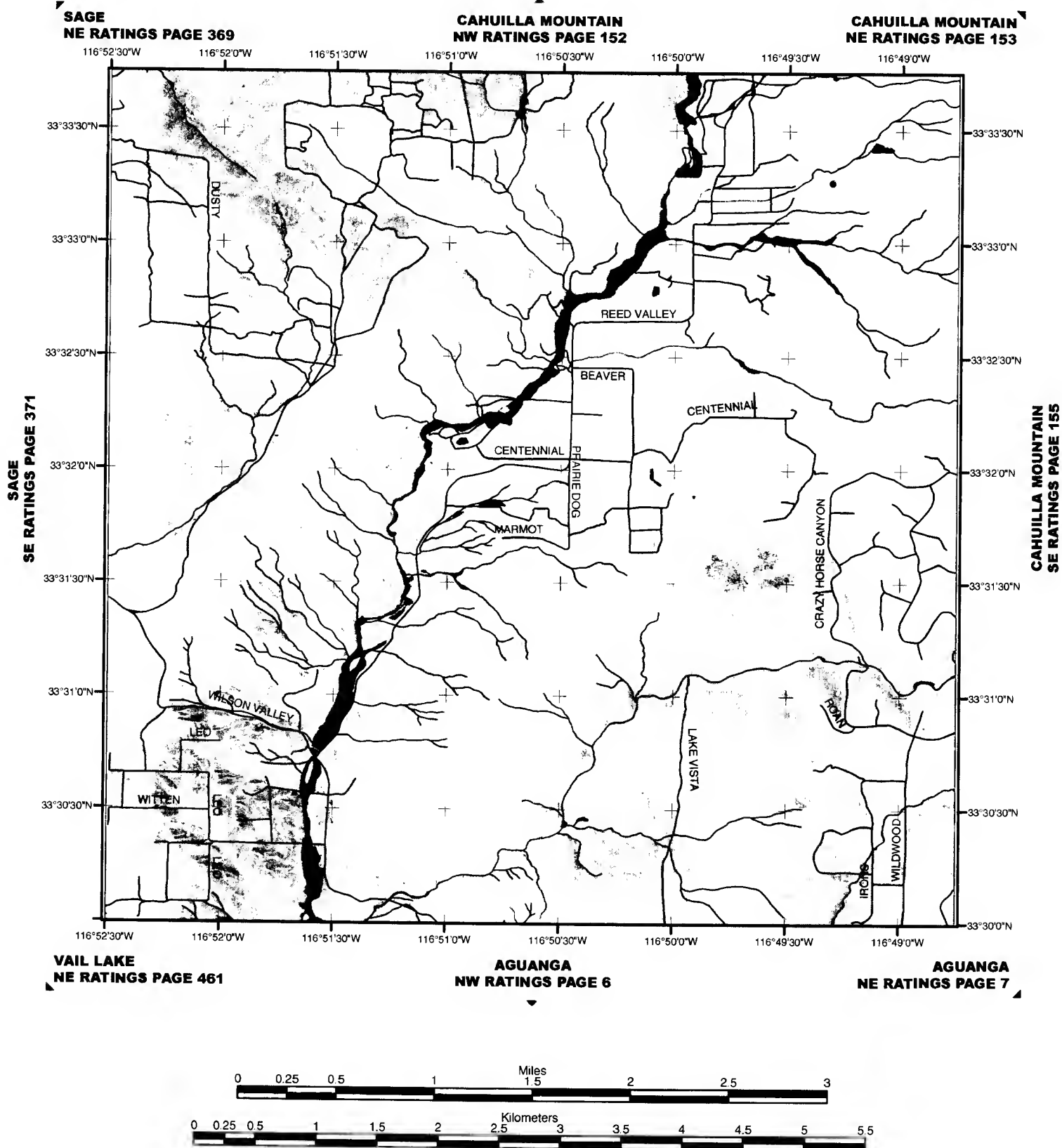
# Cahuilla Mountain North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



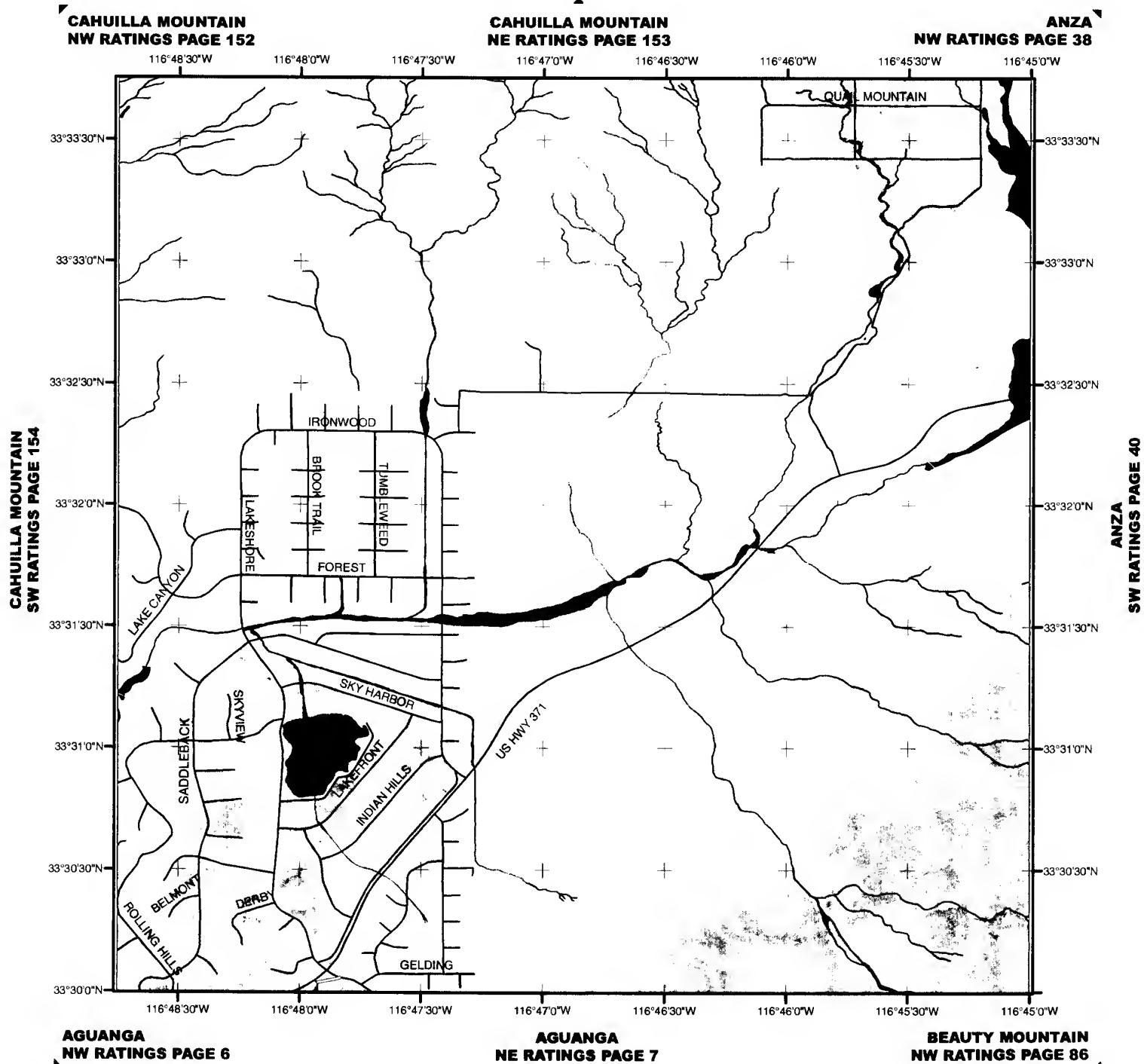
# Cahuilla Mountain North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



# Cahuilla Mountain South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



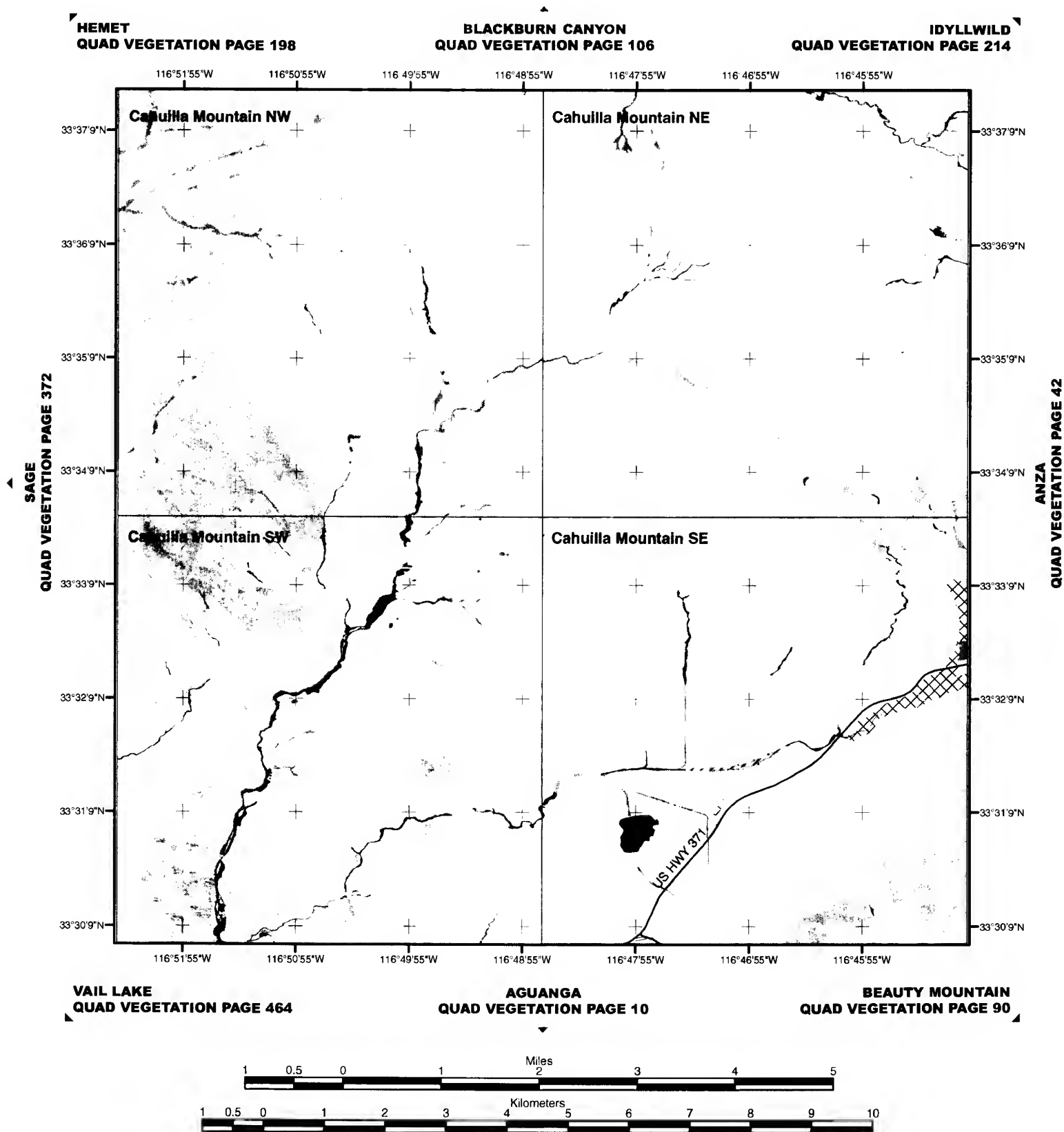
# Cahuilla Mountain South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



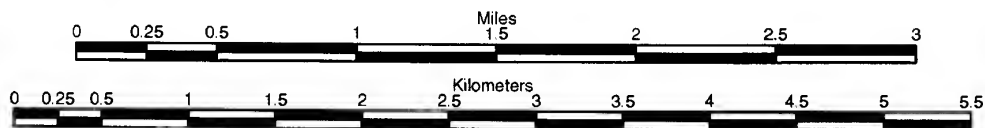
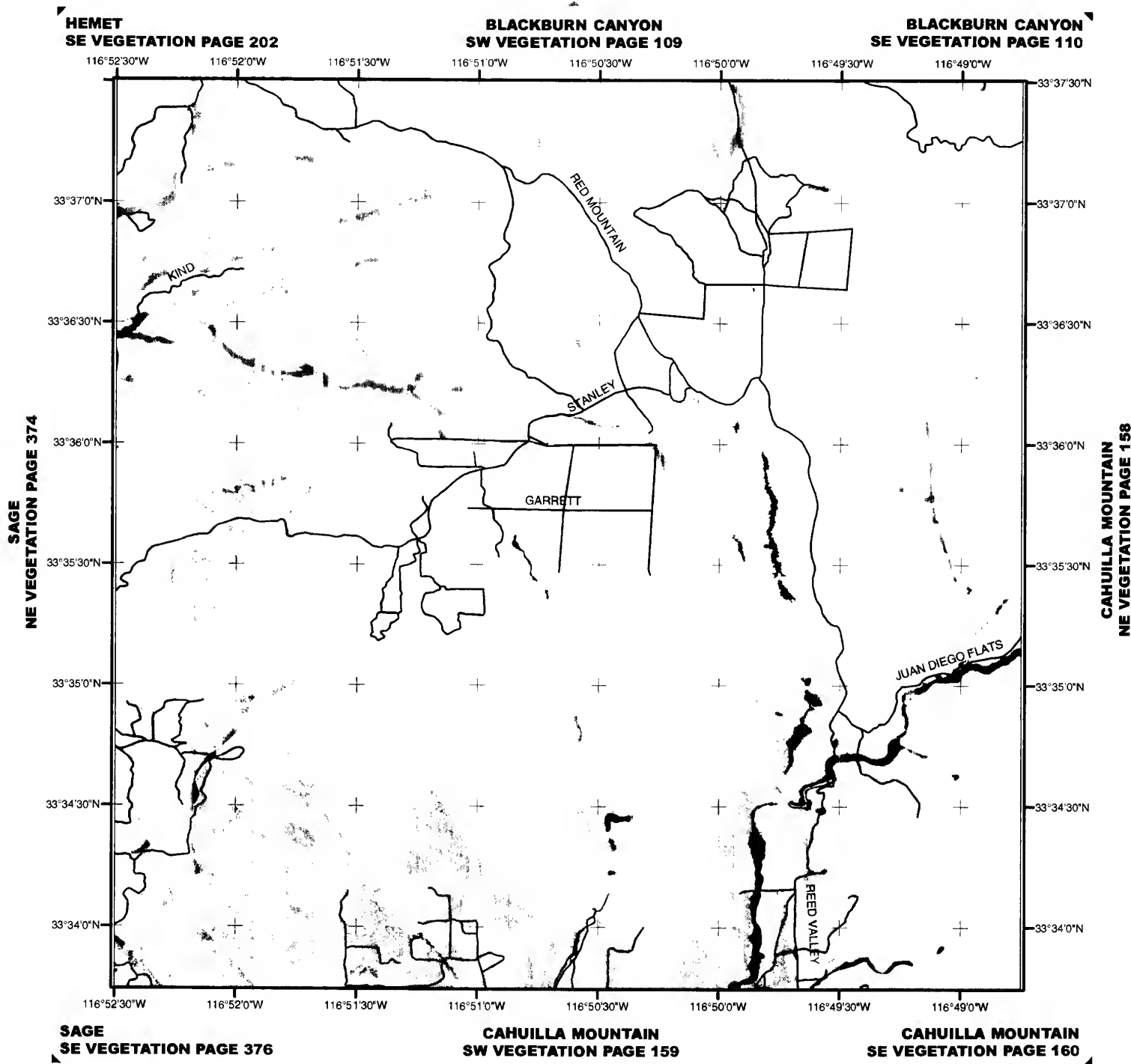


# Cahuilla Mountain Quadrangle

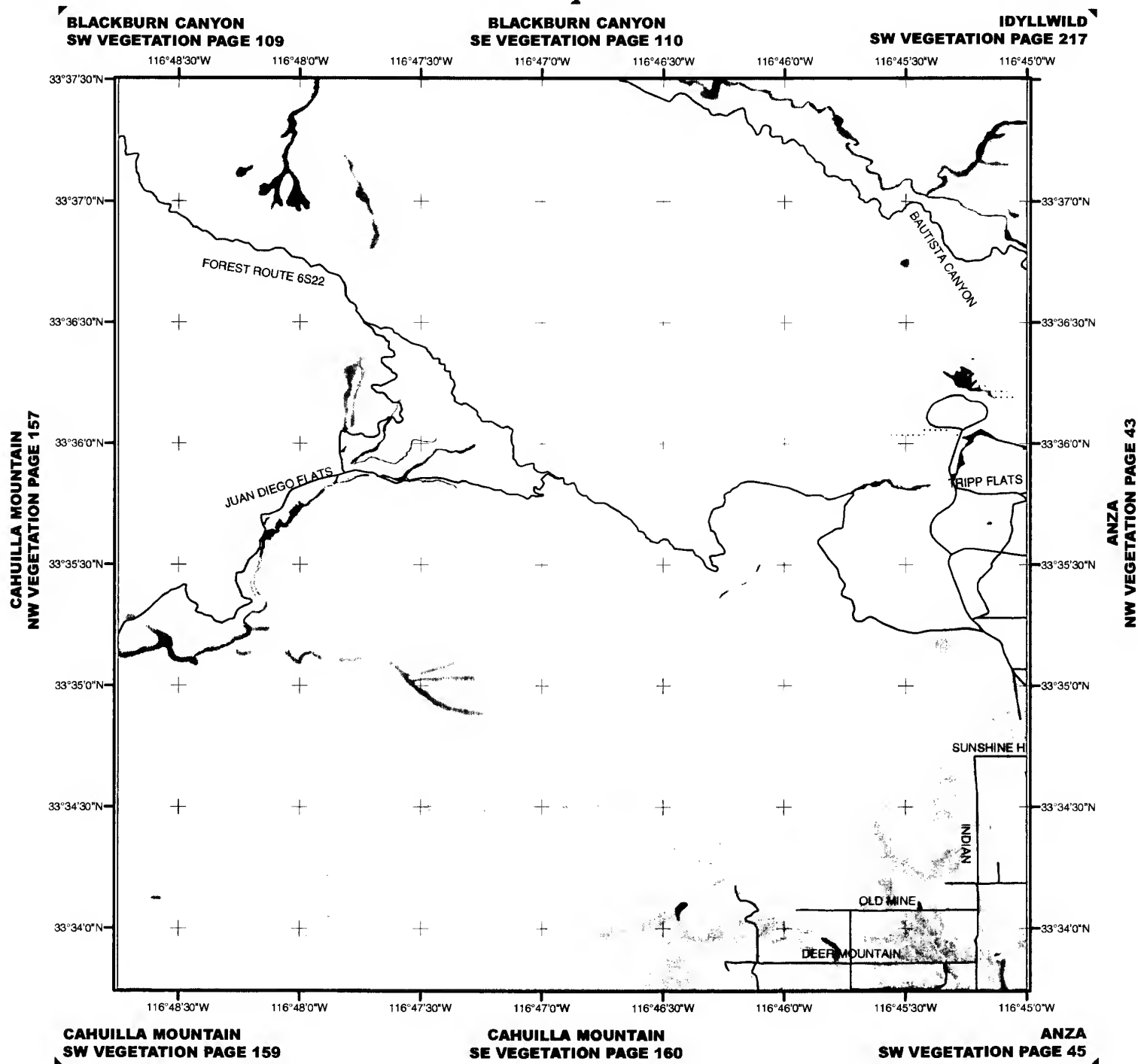
## Vegetation Species Association Units for Aquatic Resources



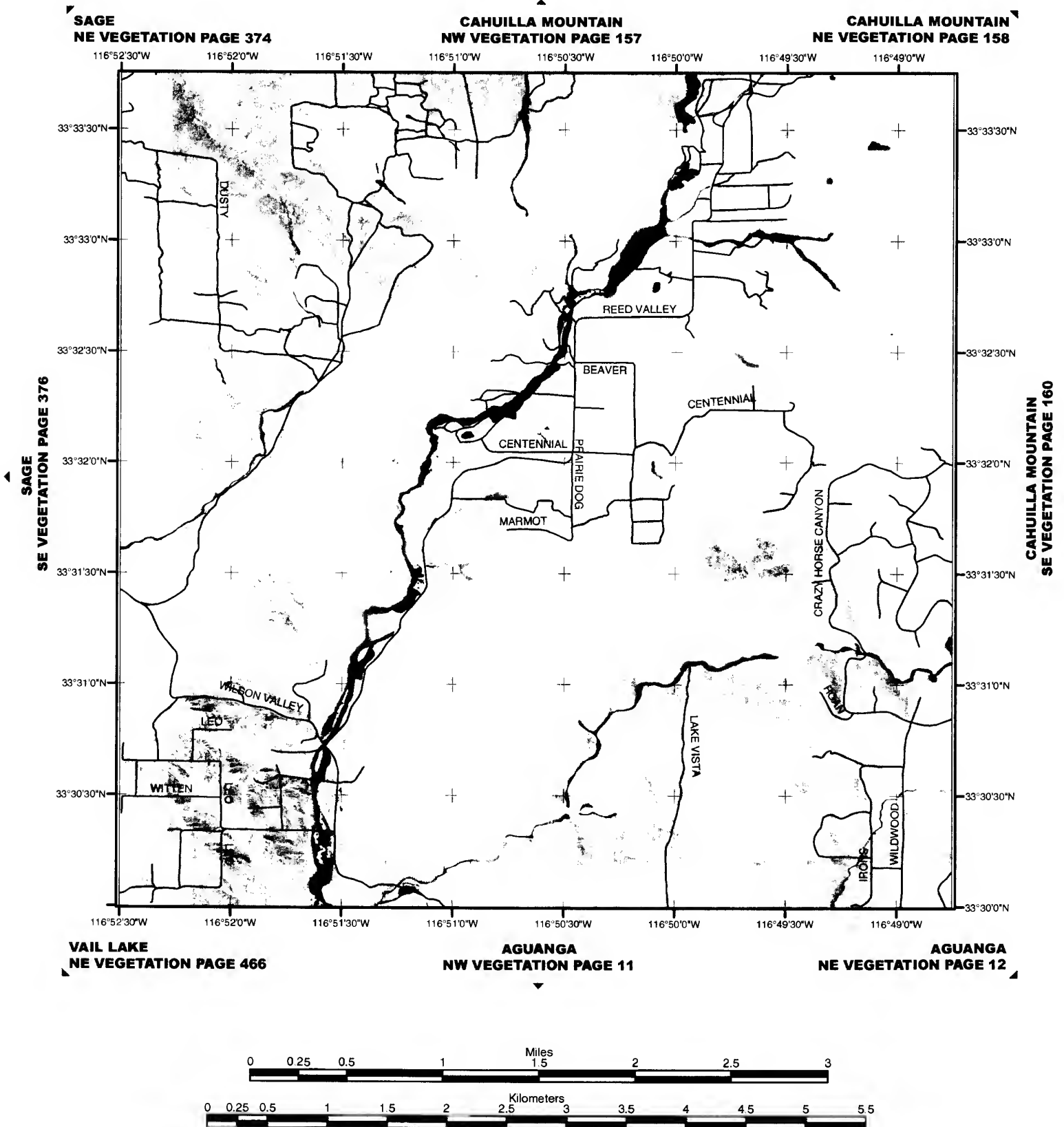
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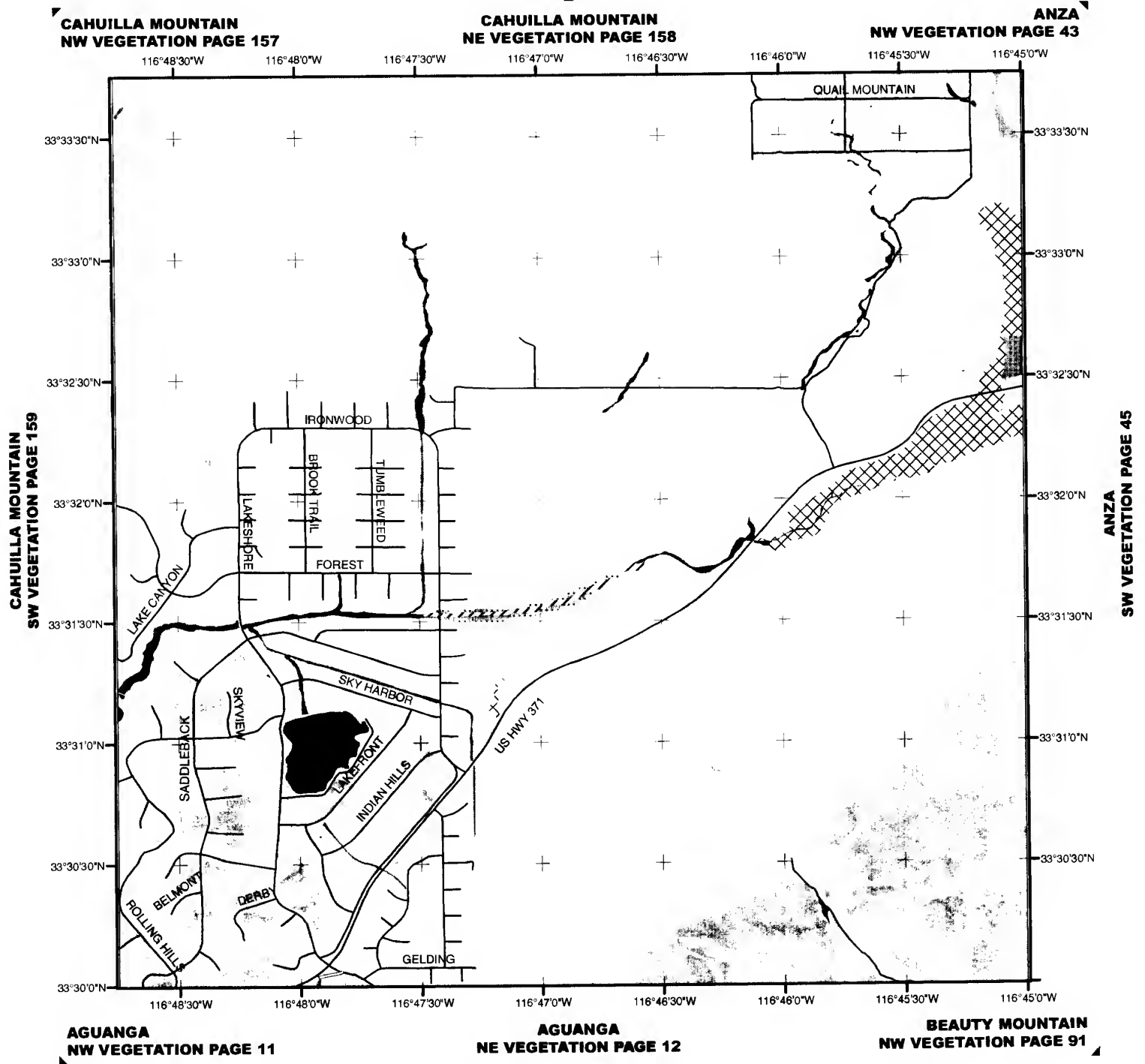
# Cahuilla Mountain North East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



# Cahuilla Mountain South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

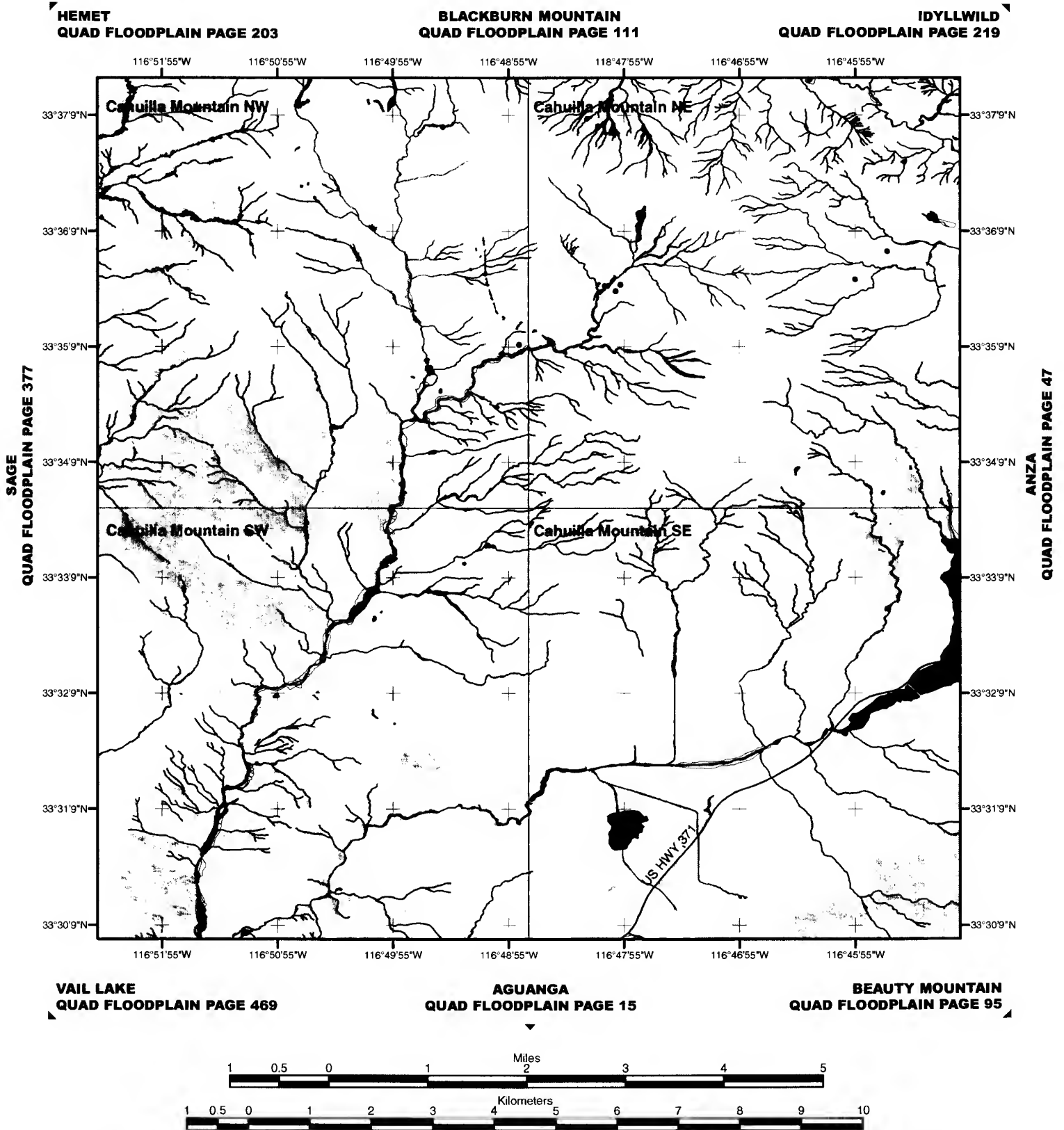


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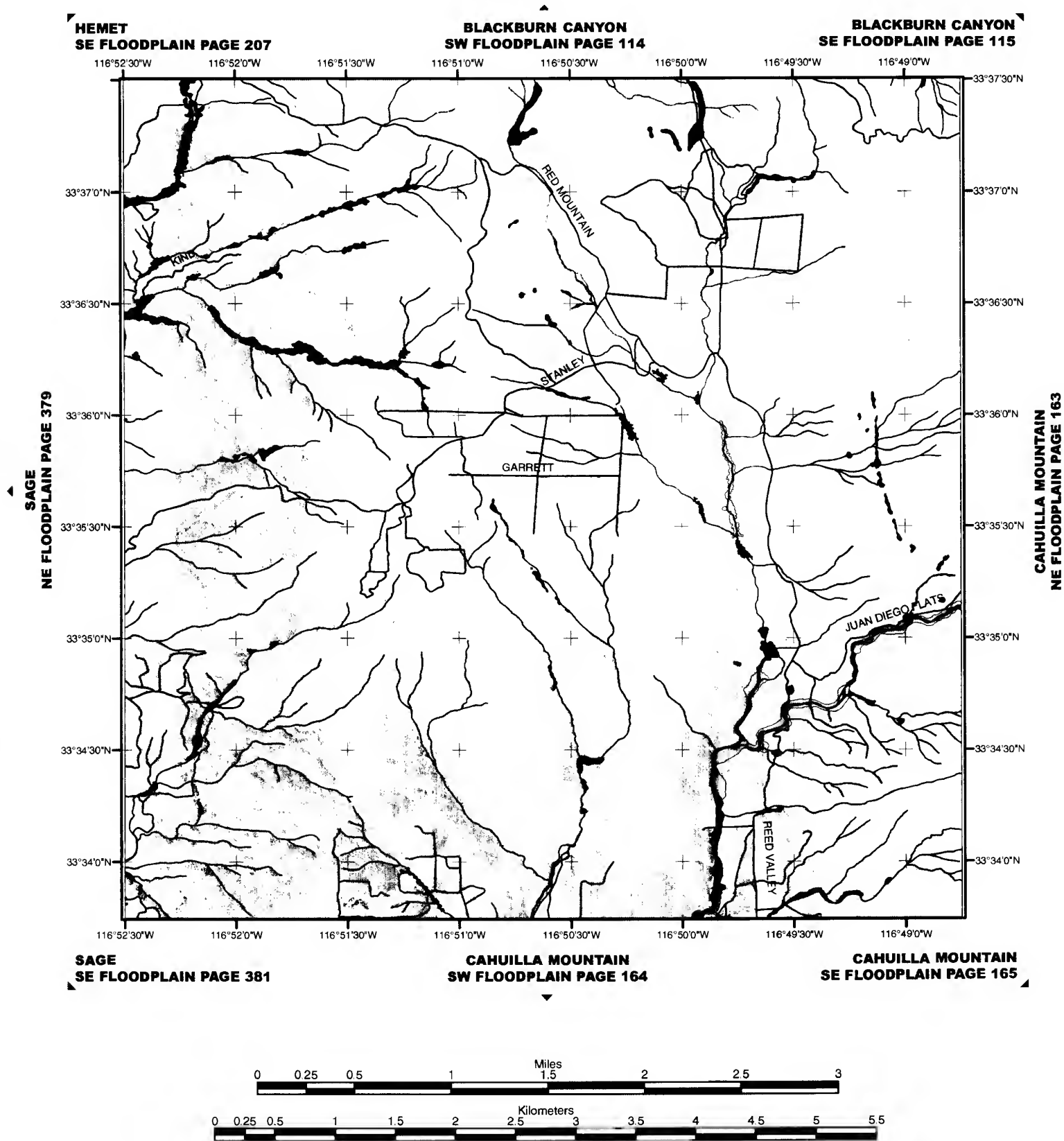


# Cahuilla Mountain Quadrangle

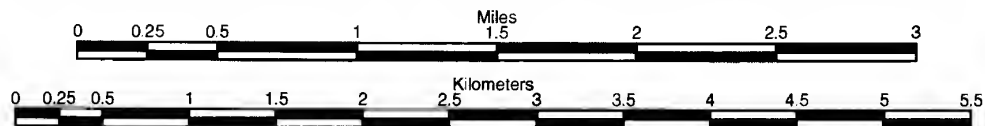
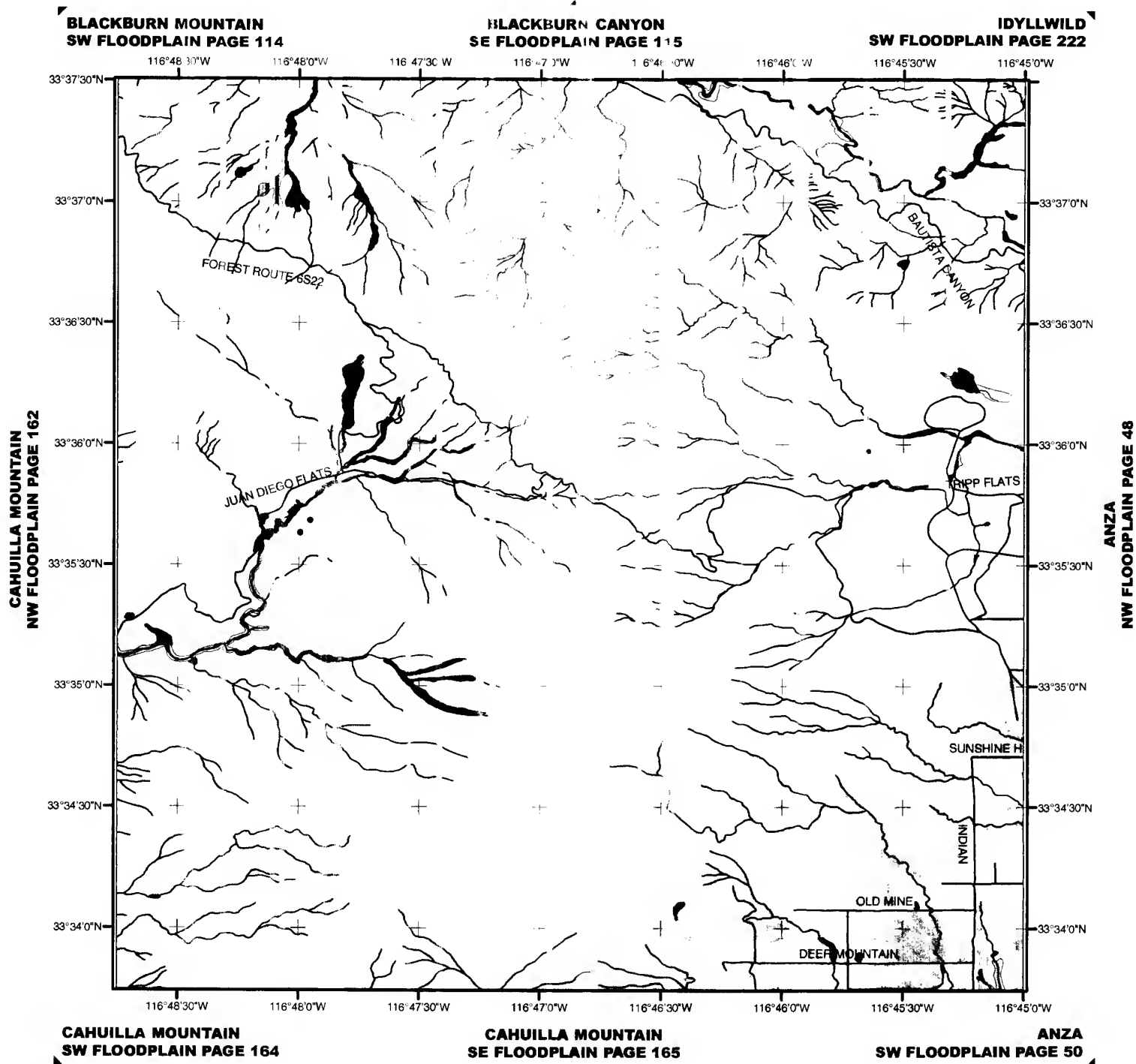
## Hydrogeomorphic Floodplain Units for Aquatic Resources



# Cahuilla Mountain North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

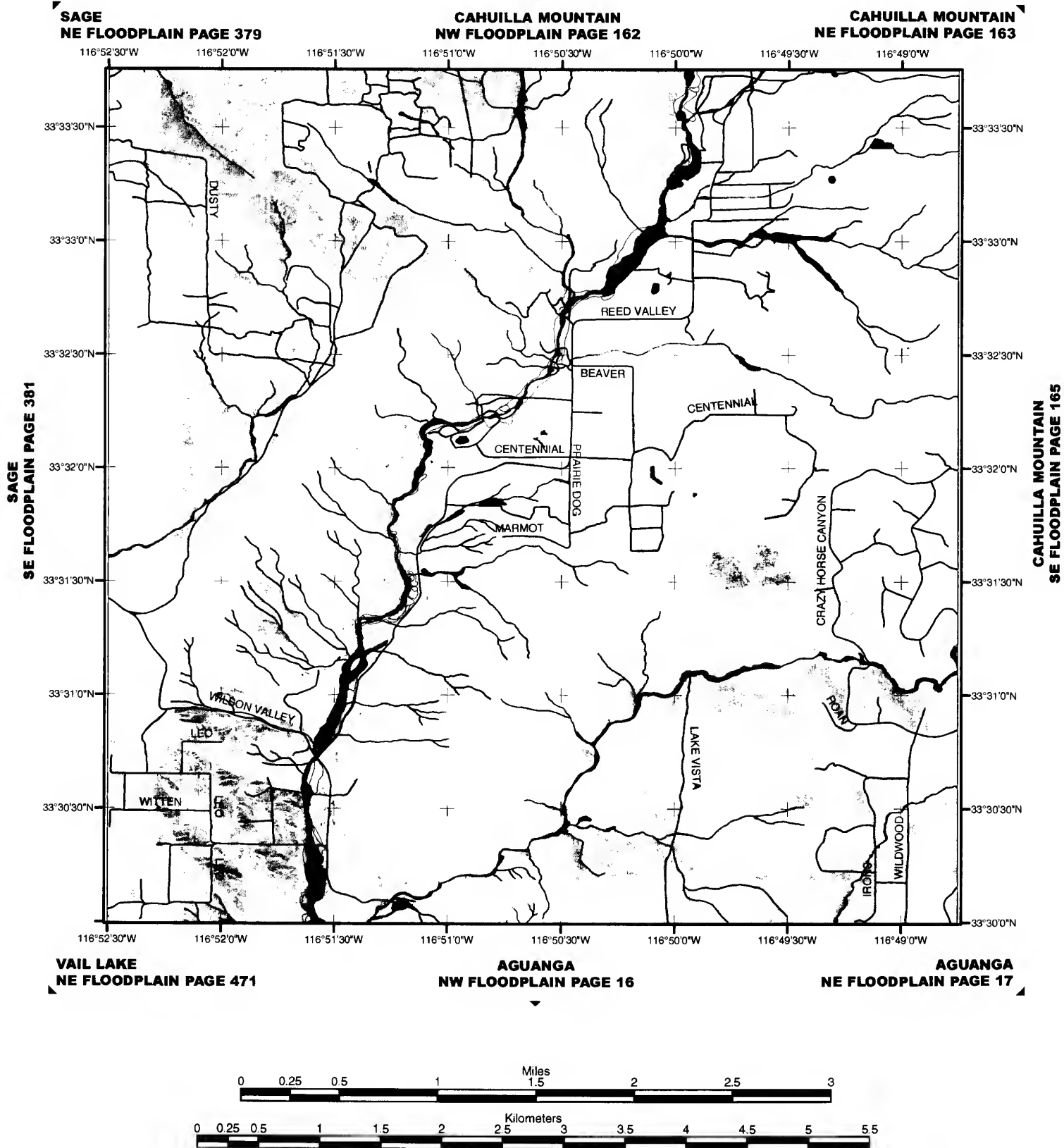


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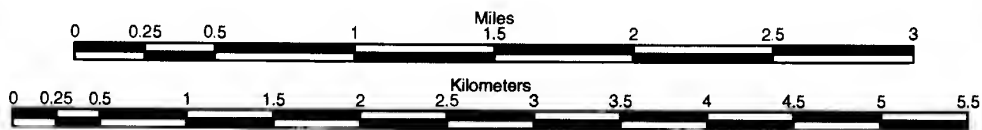
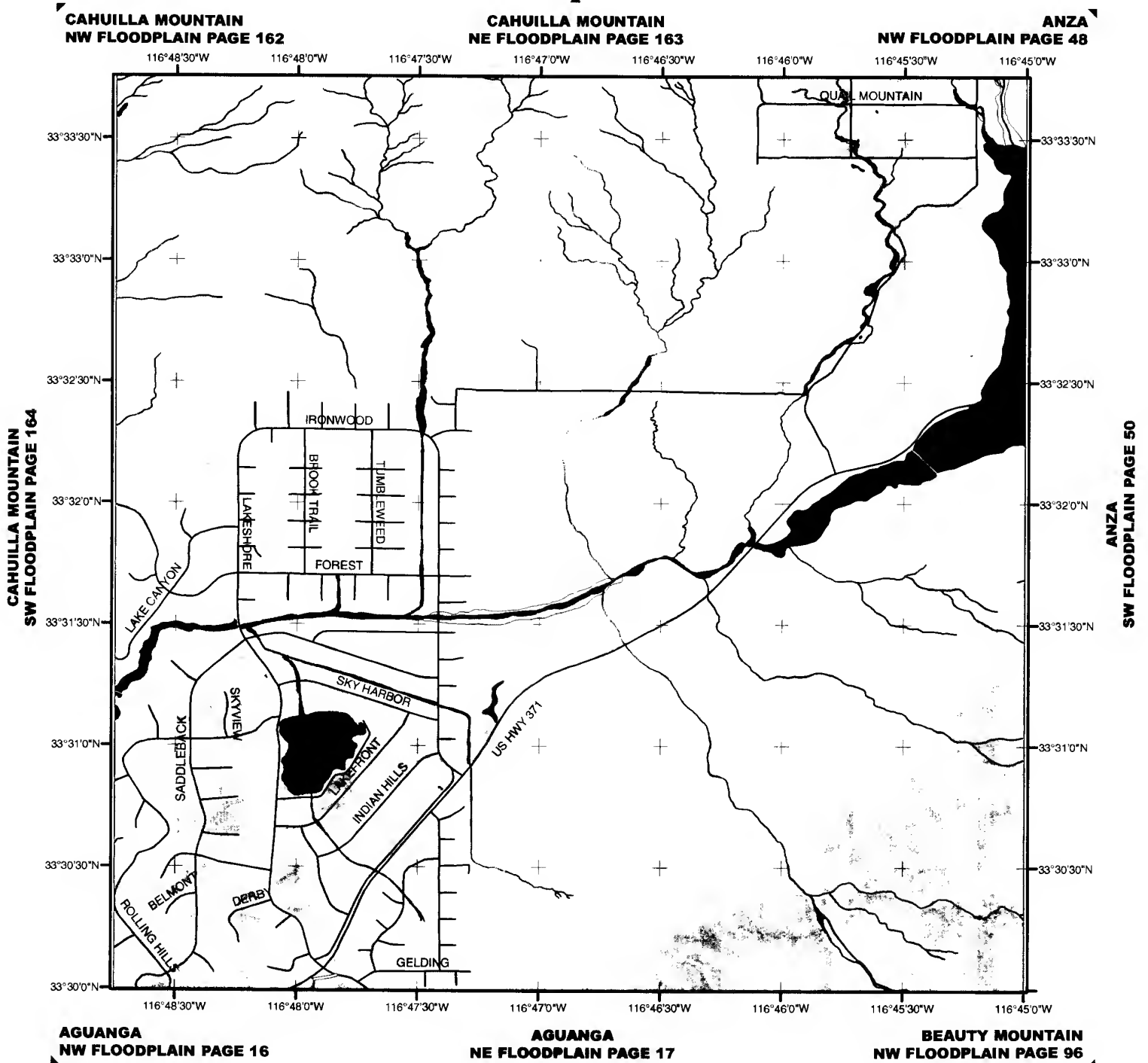




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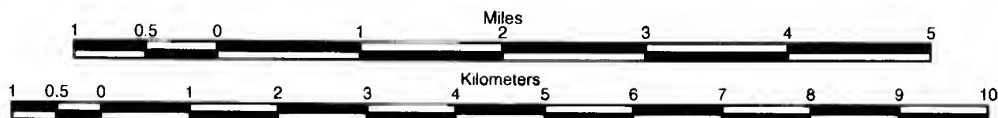
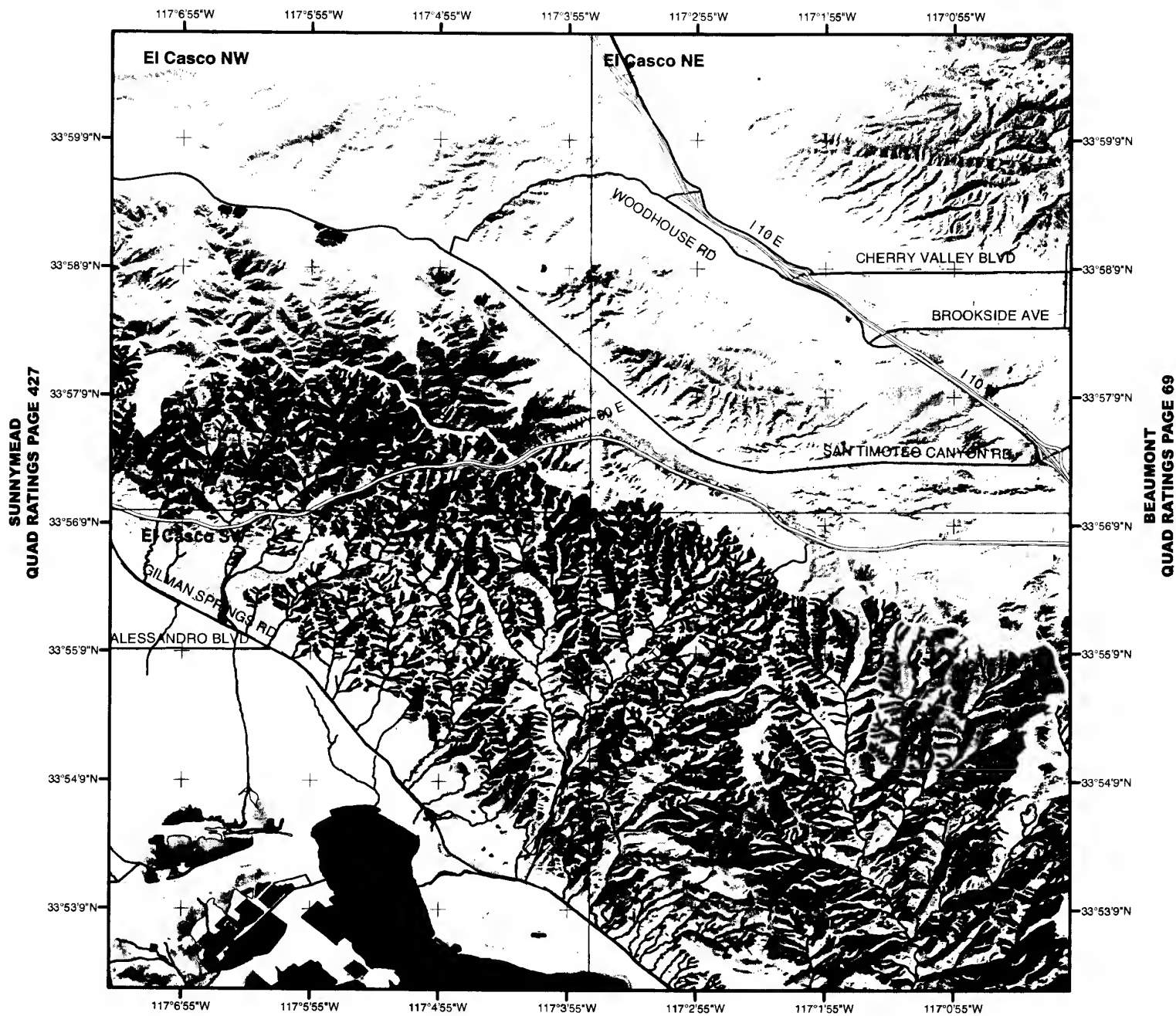
## Cahuilla Mountain South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



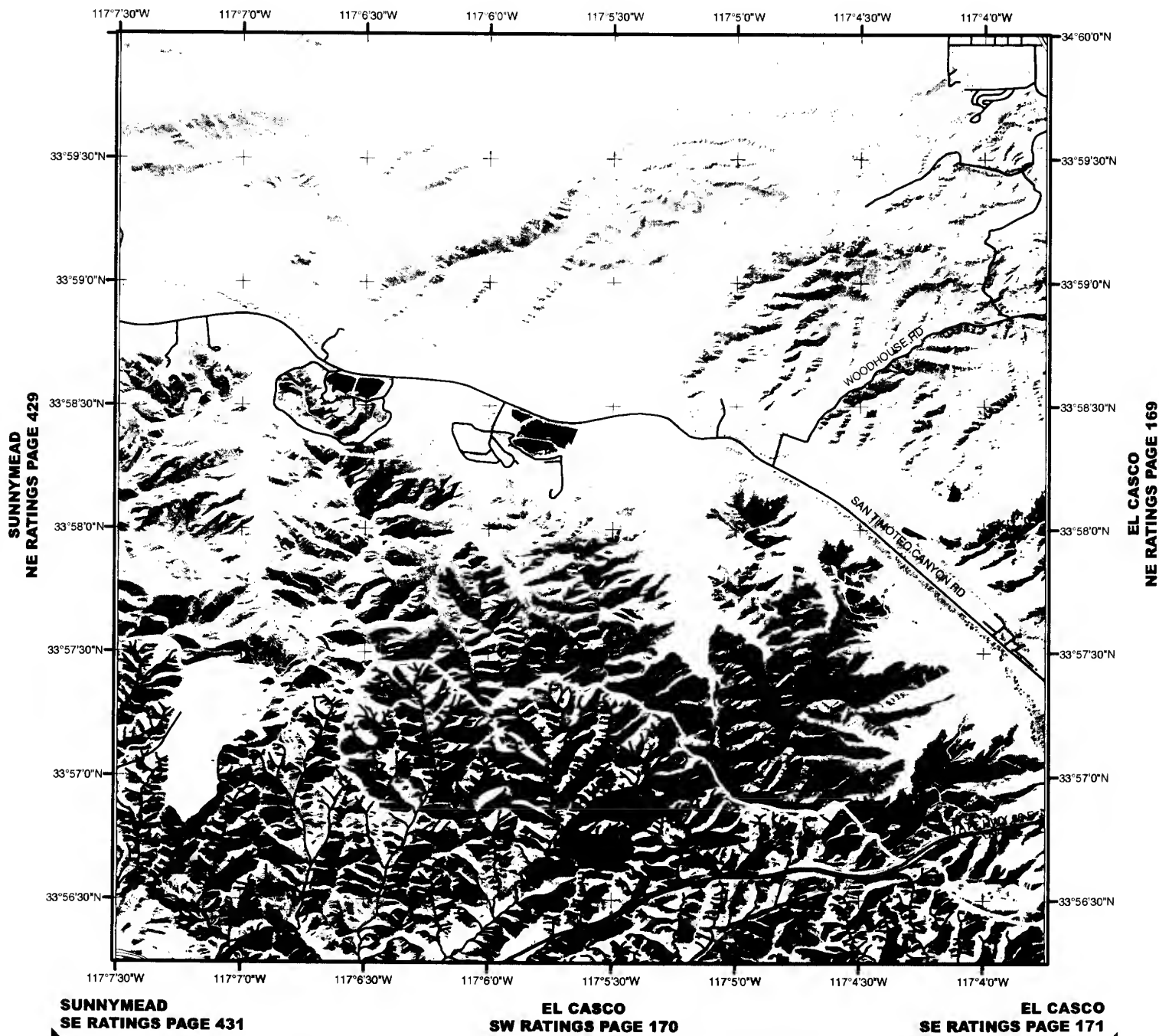


# El Casco Quadrangle

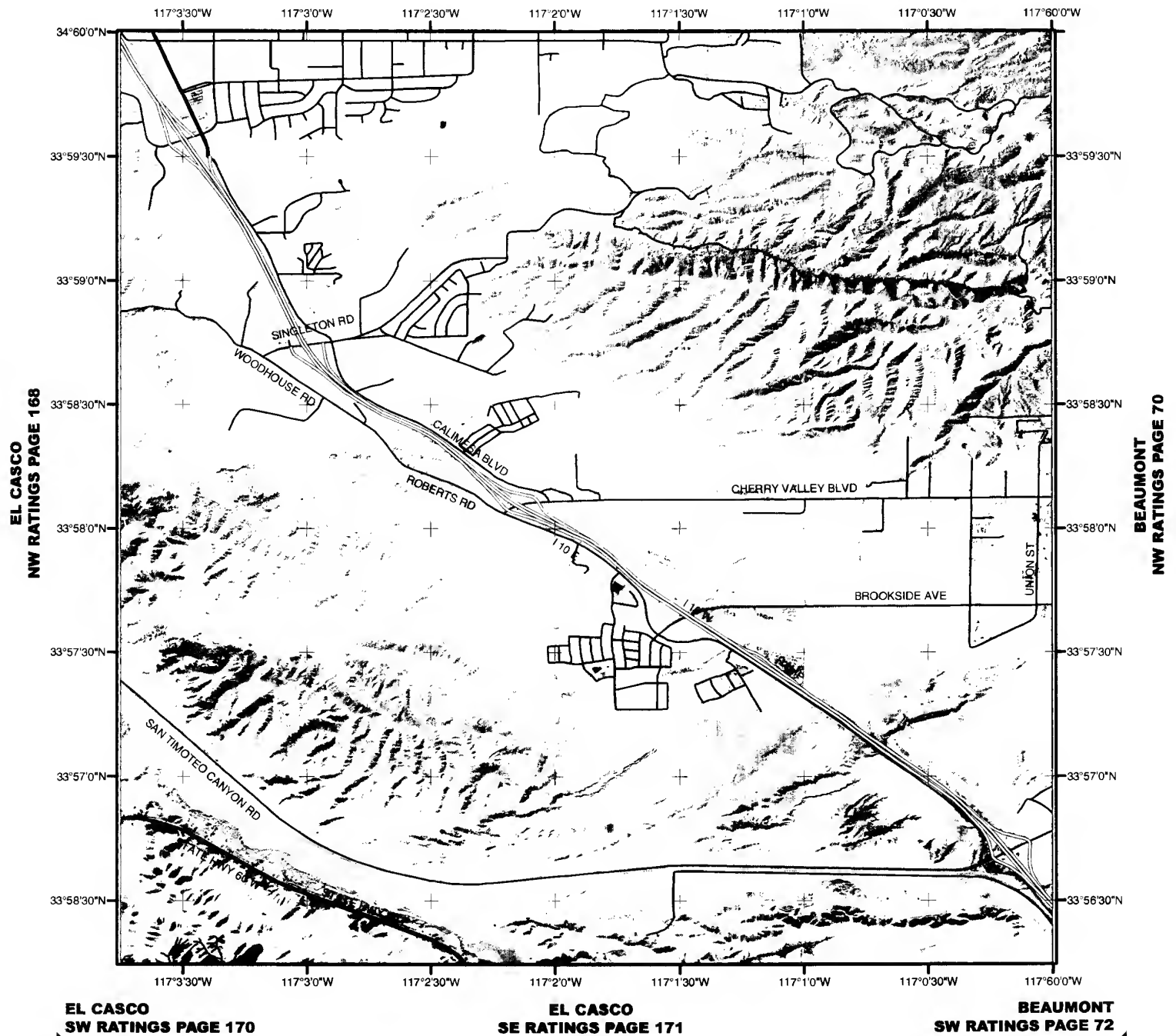
## Regulatory Probability Ratings for Aquatic Resources



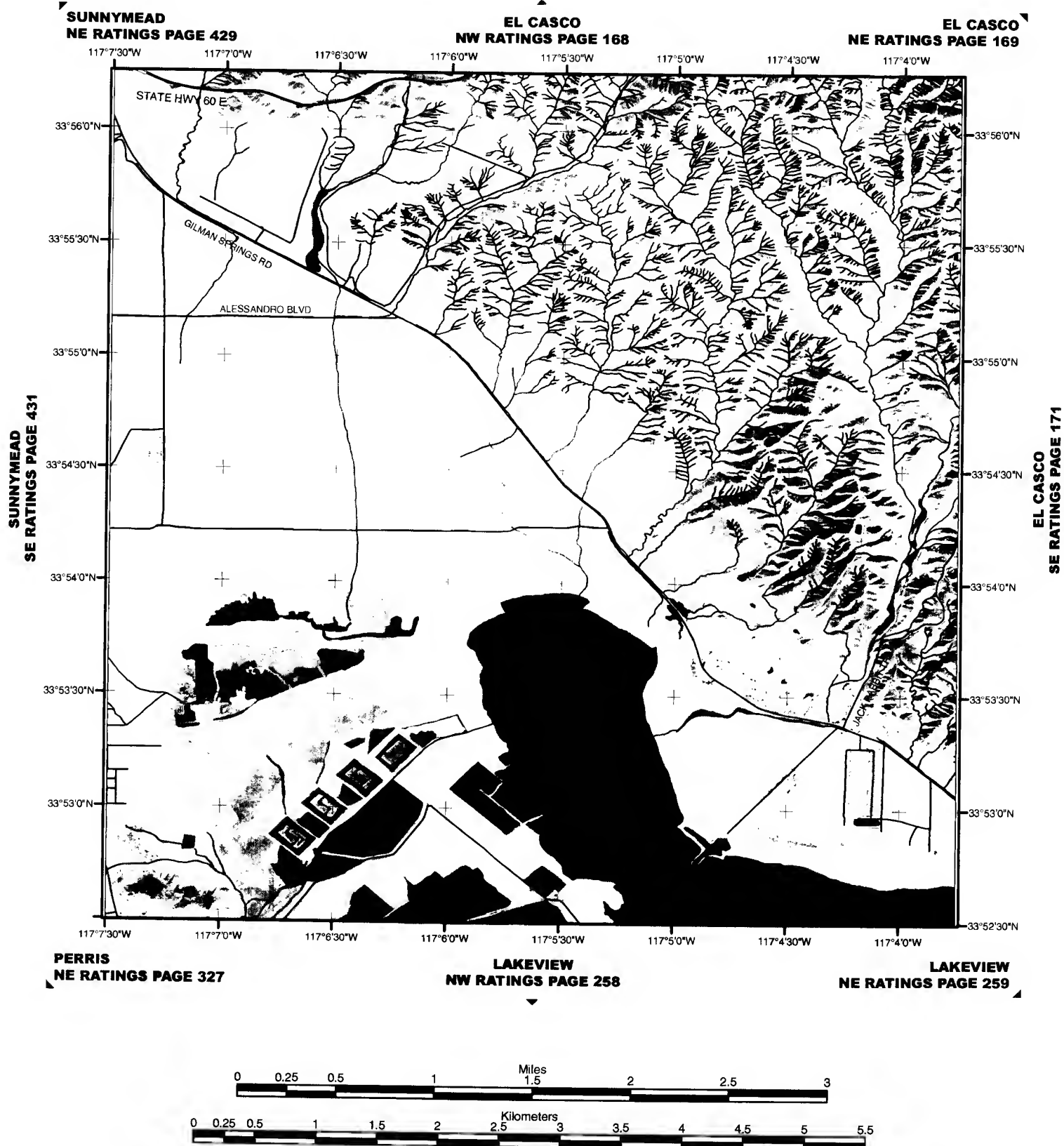
# El Casco North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



# El Casco North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

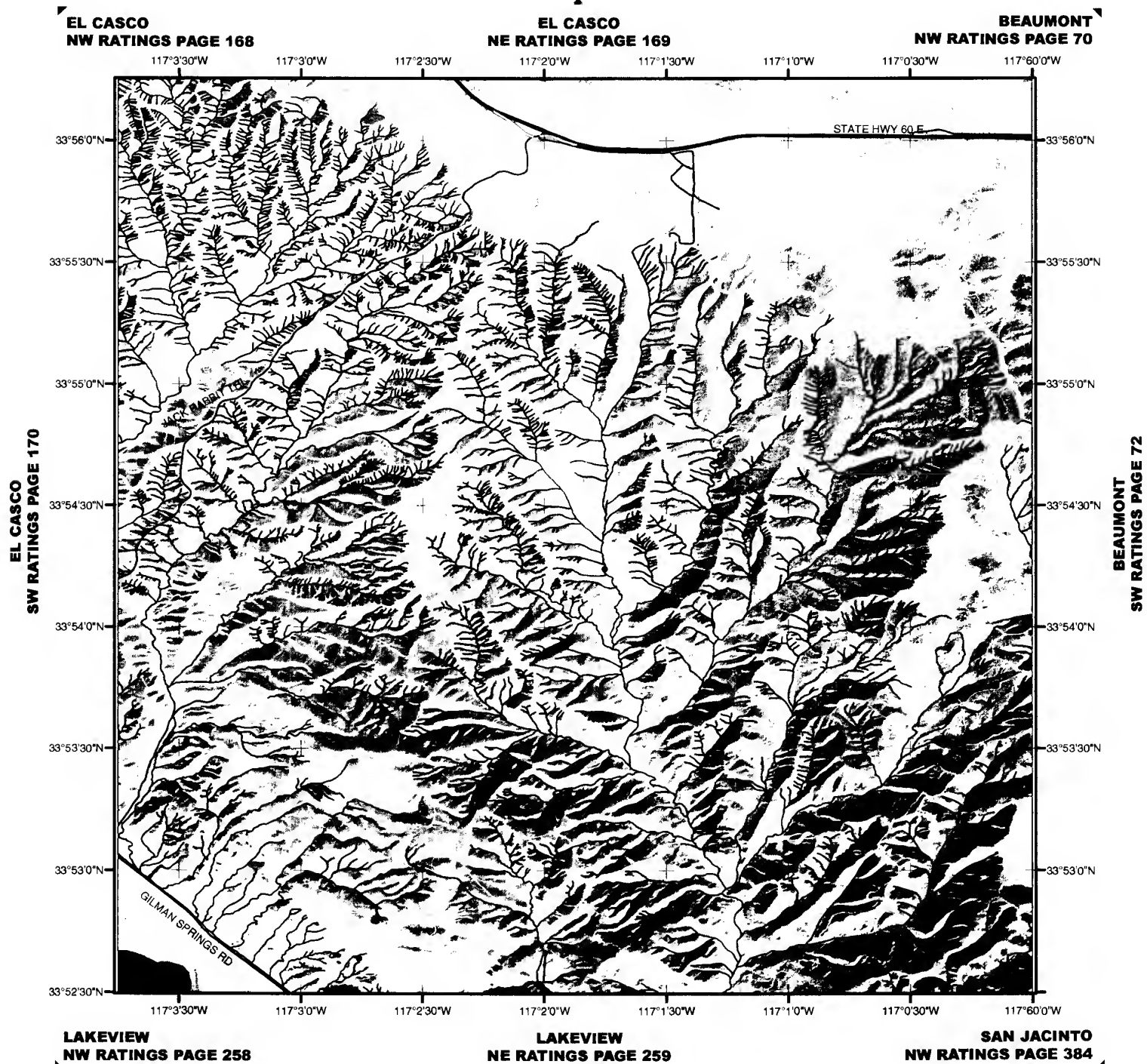


# El Casco South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources





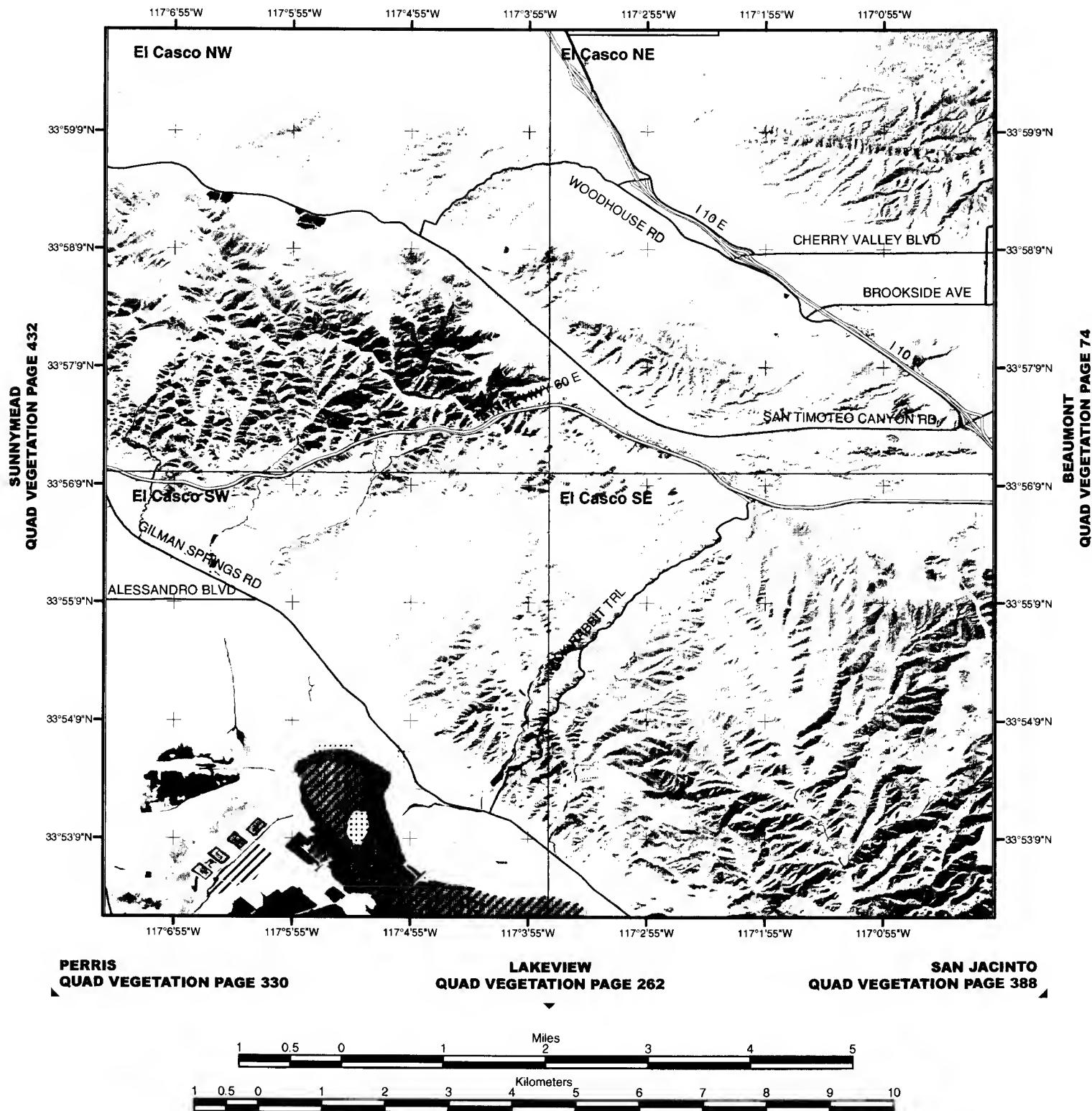
# El Casco South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



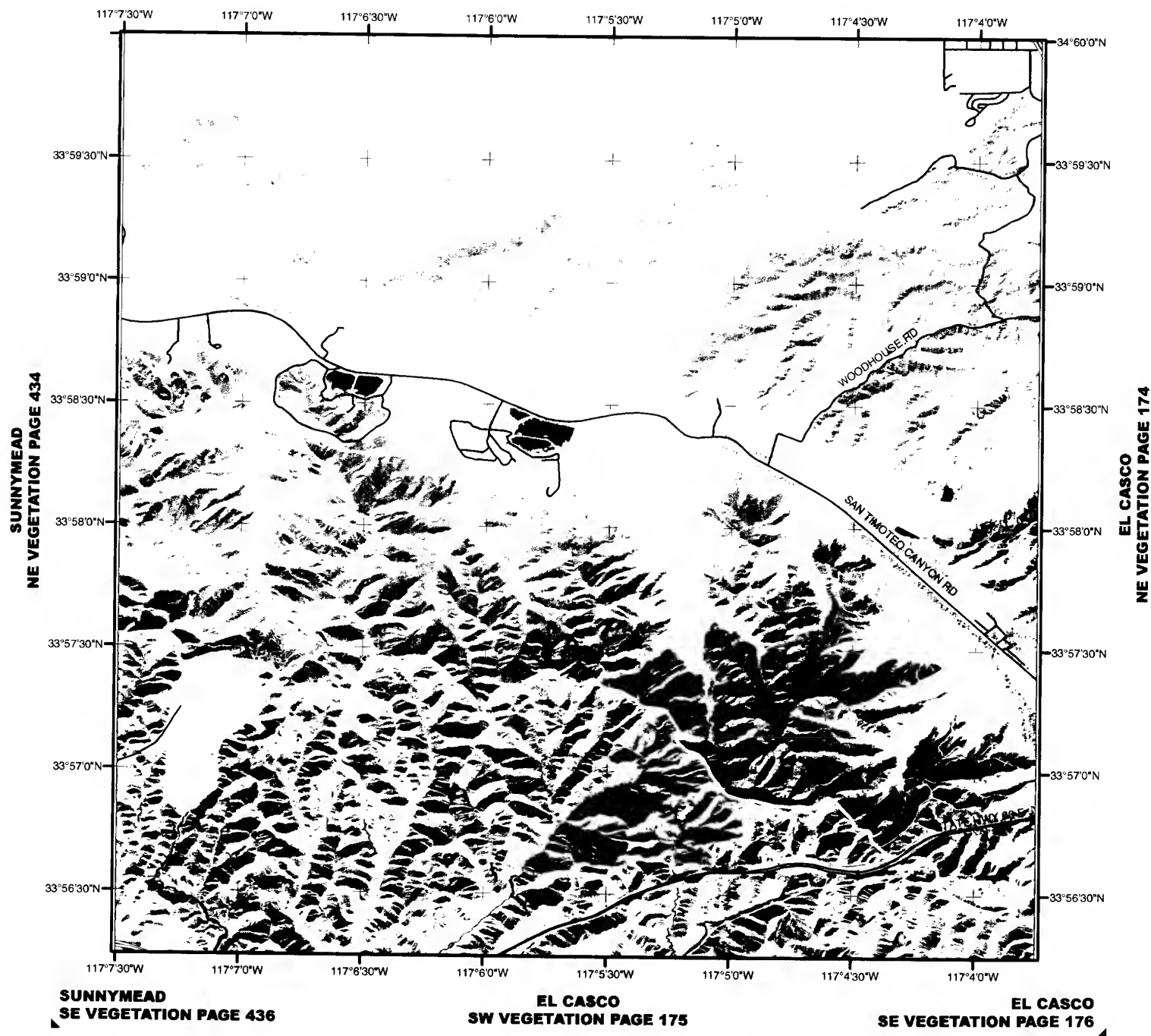


# El Casco Quadrangle

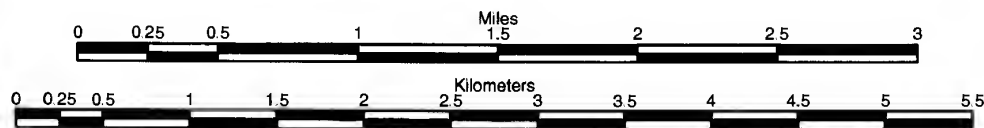
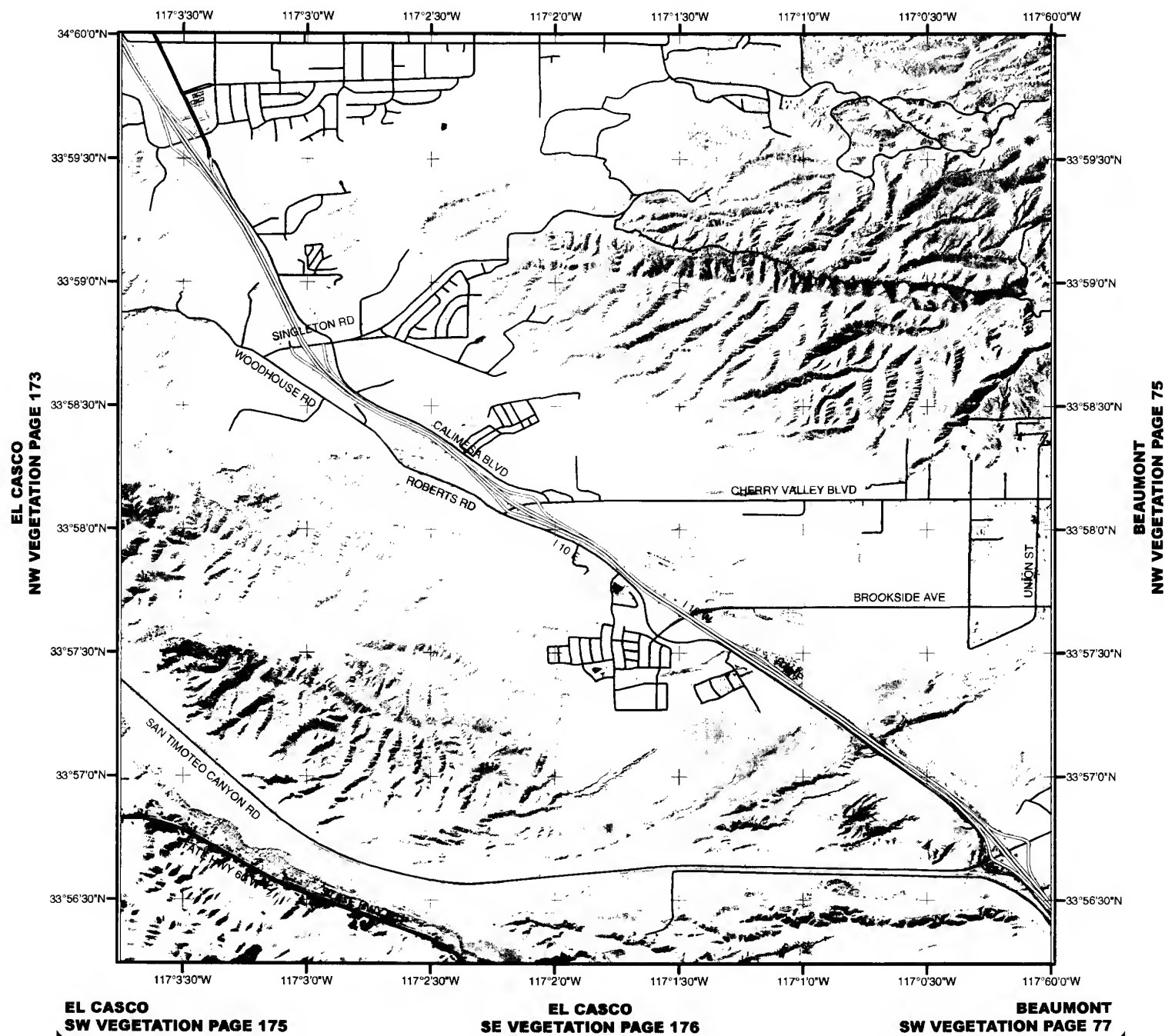
## Vegetation Species Association Units for Aquatic Resources



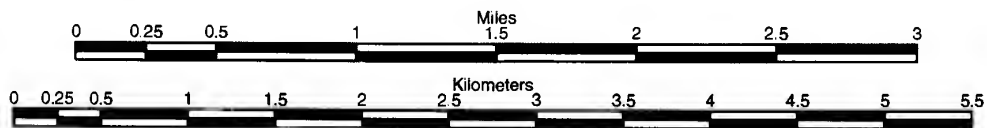
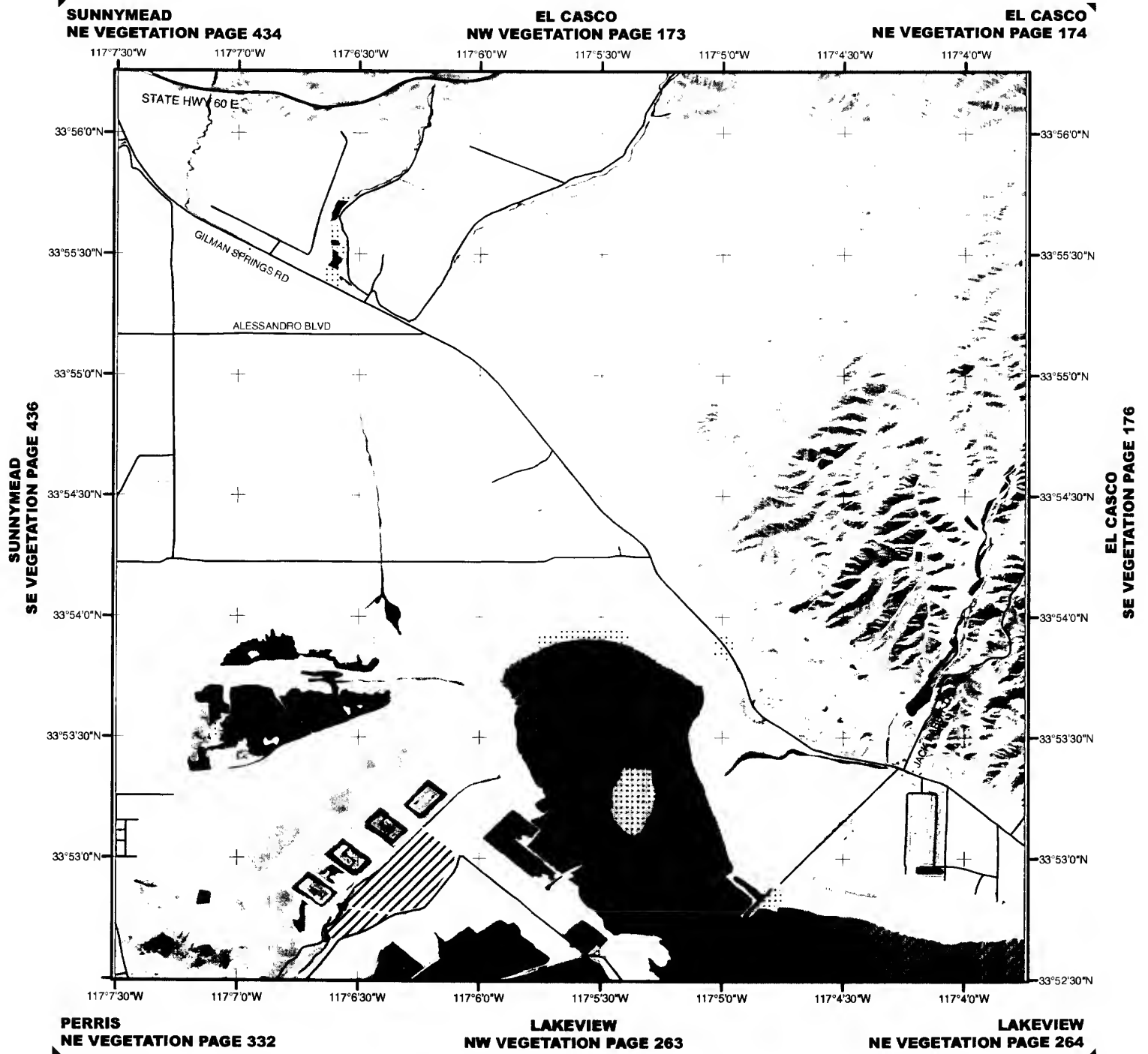
# El Casco North West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



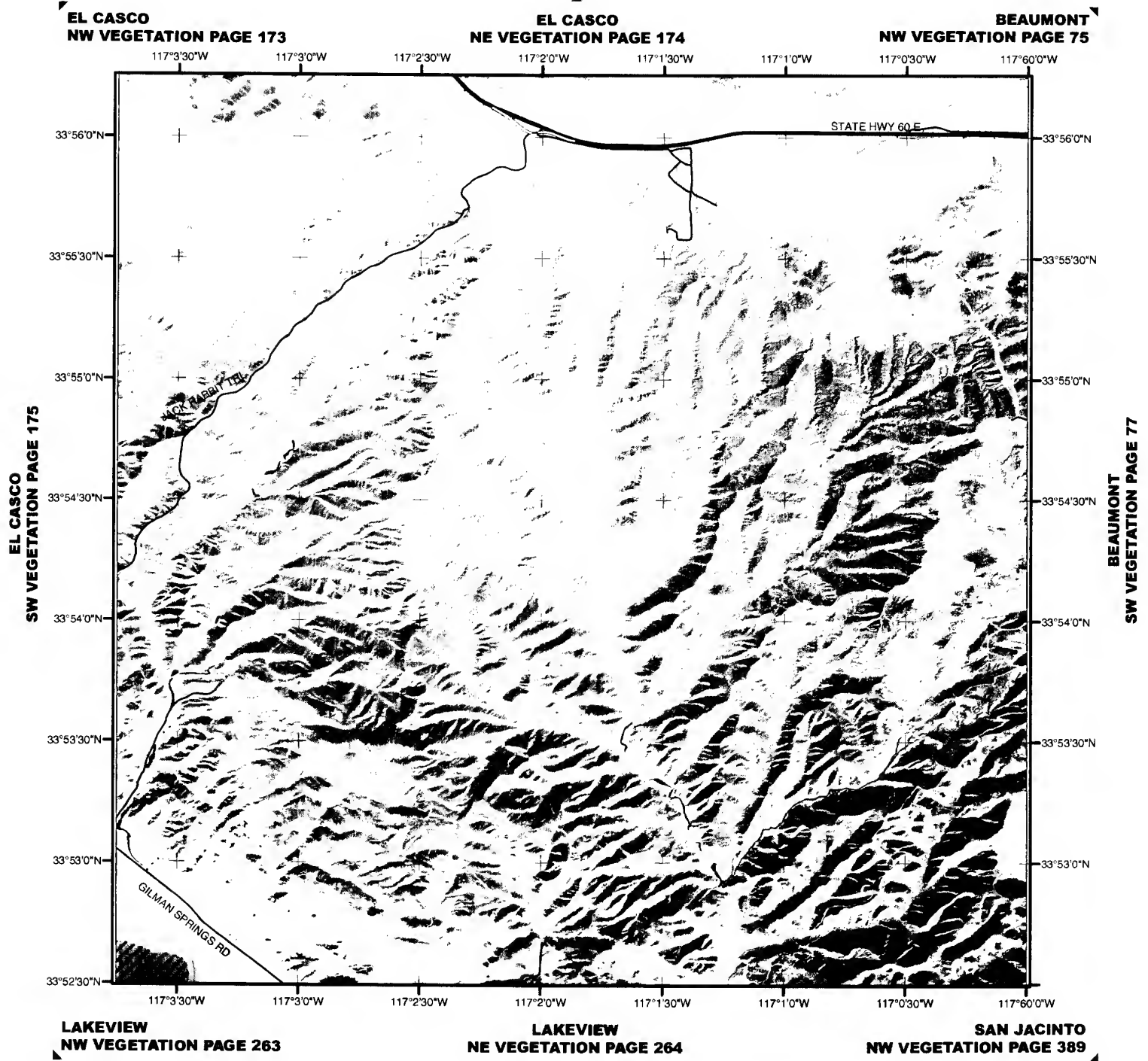
# El Casco North East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



# El Casco South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

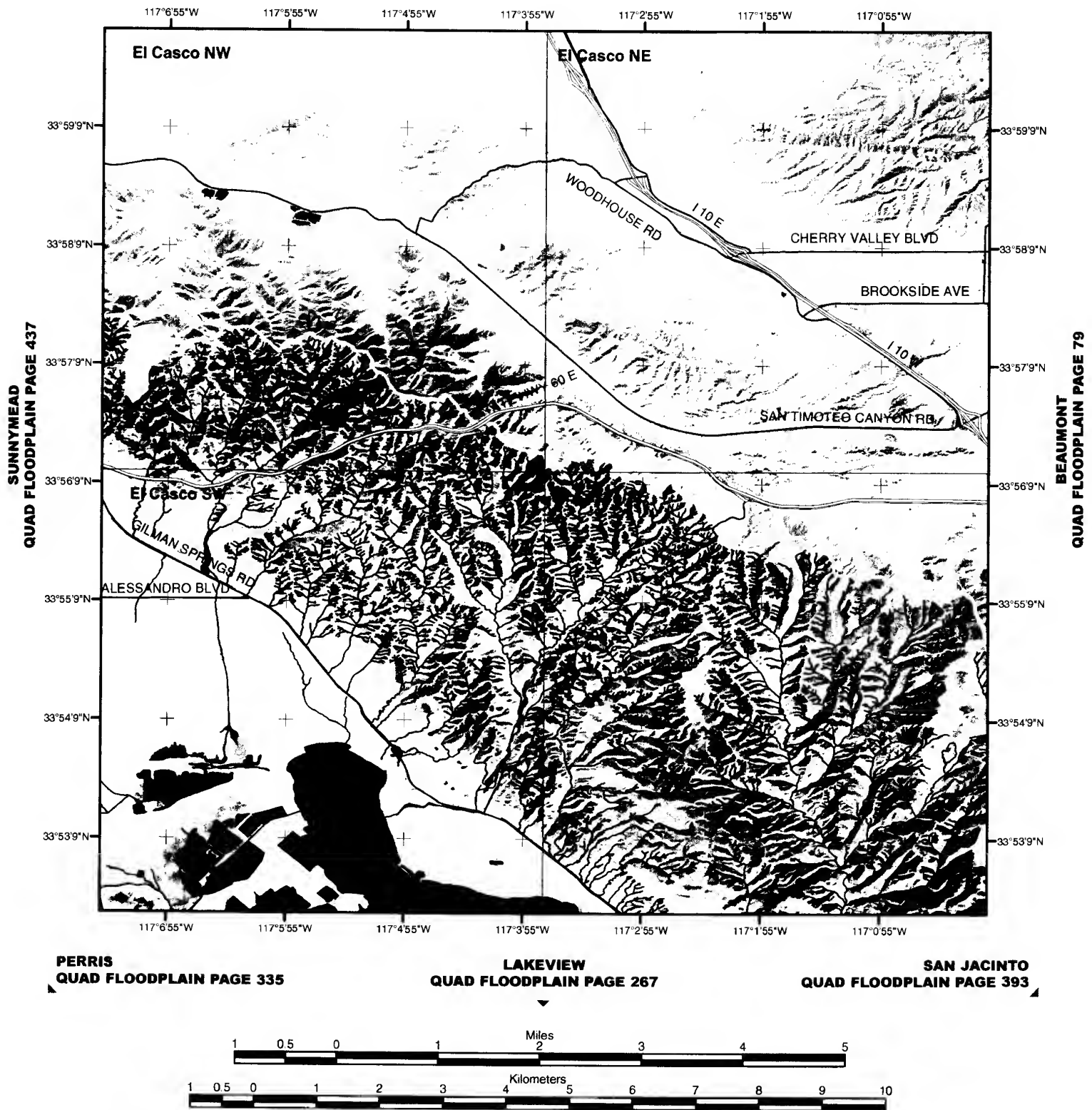


# El Casco South East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



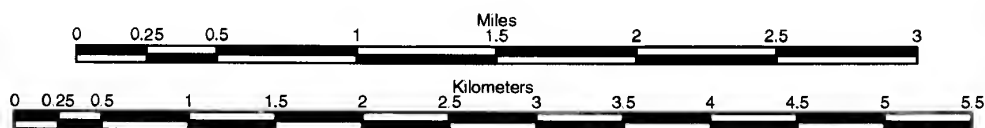
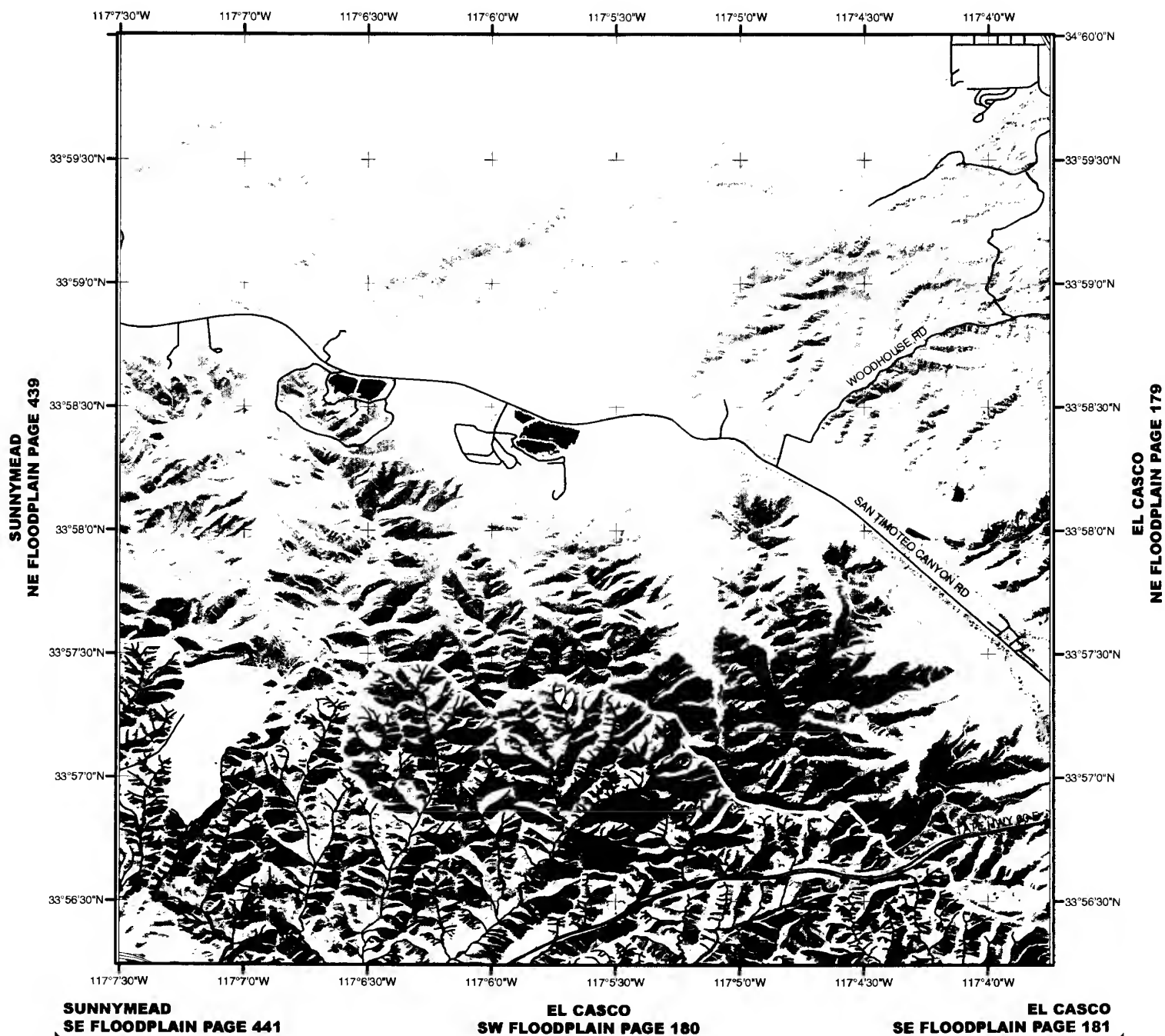
# El Casco Quadrangle

## Hydrogeomorphic Floodplain Units for Aquatic Resources

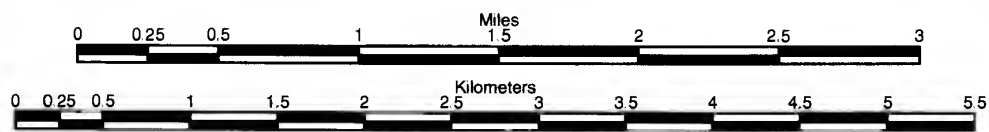
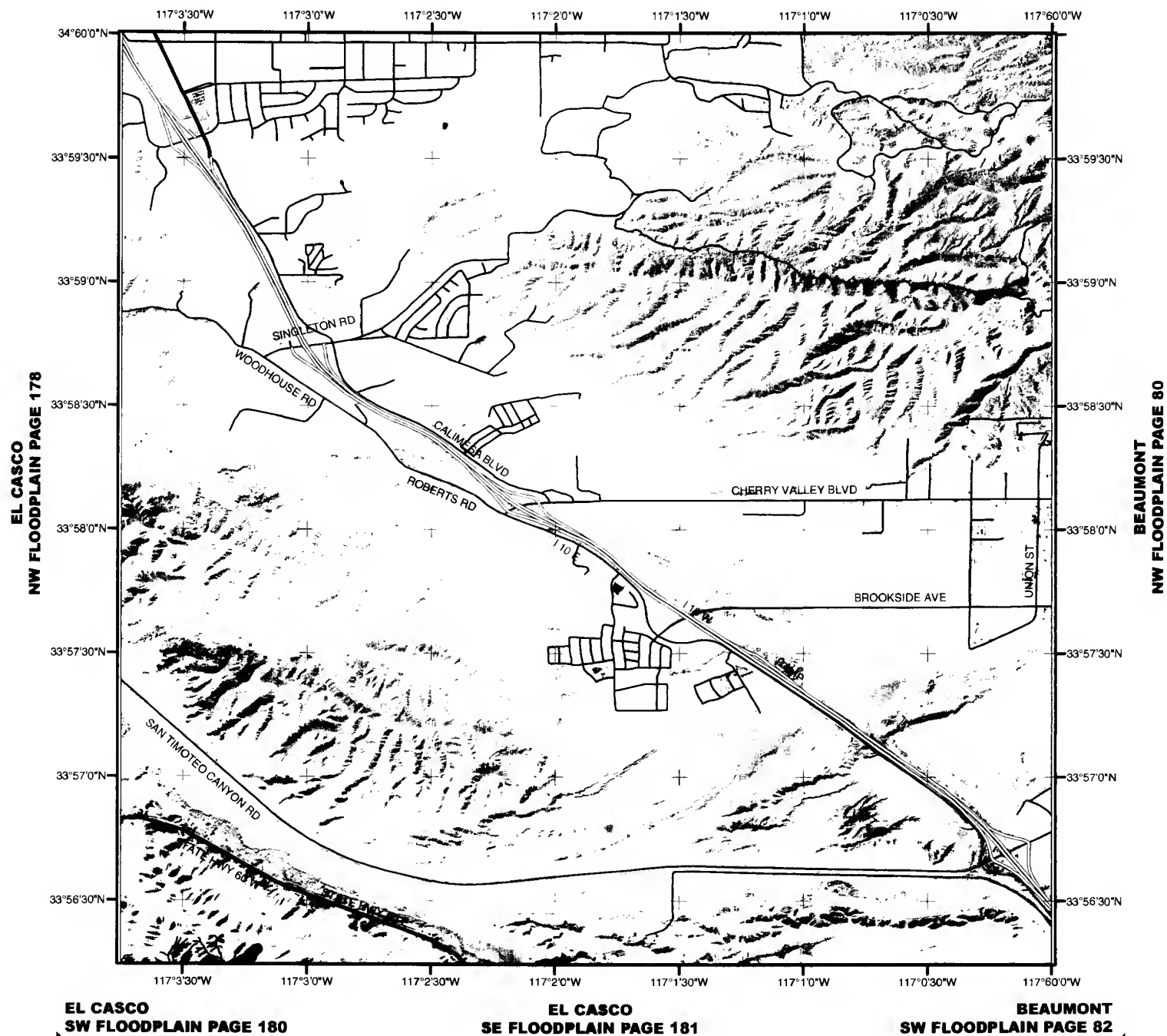




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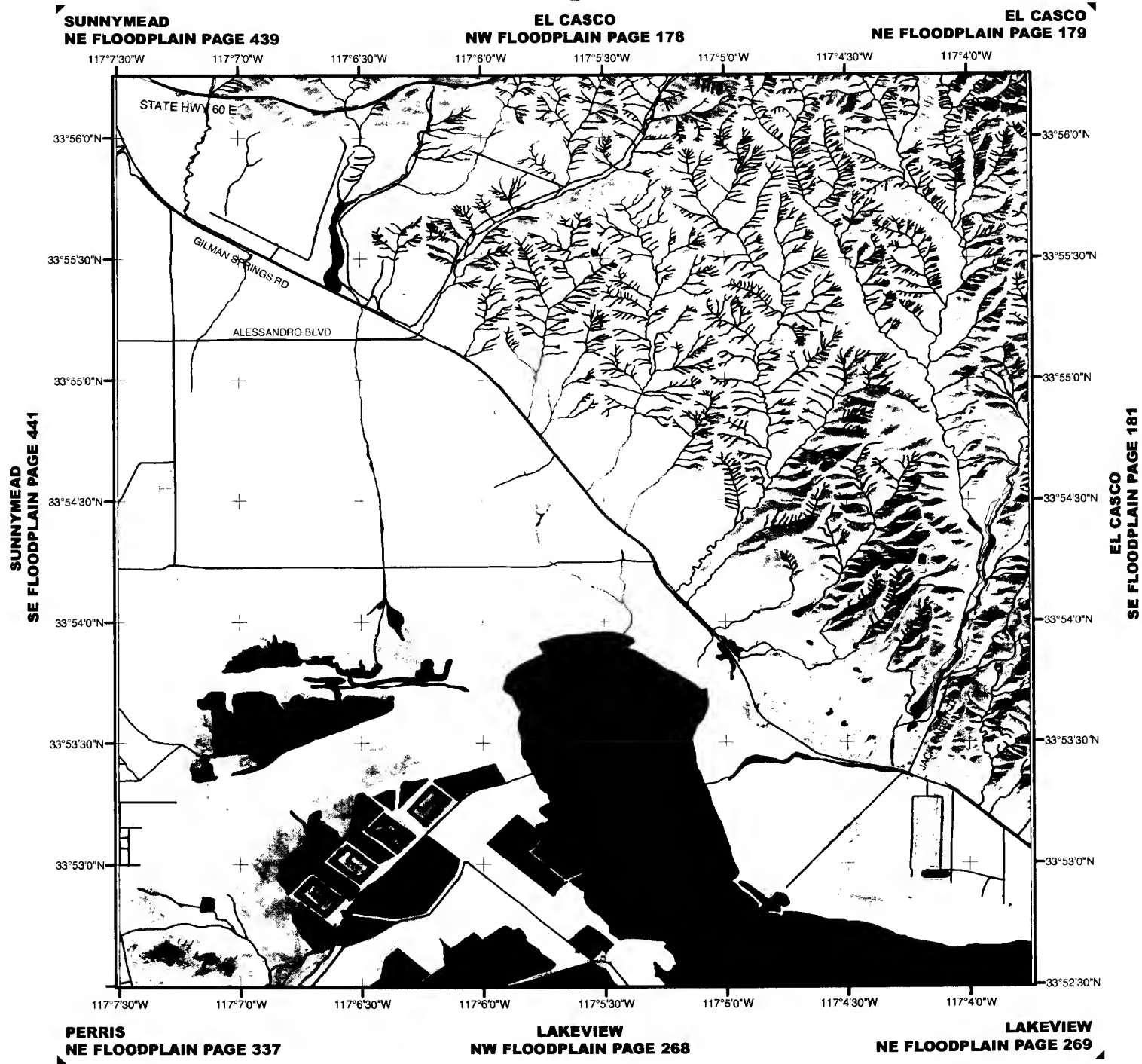


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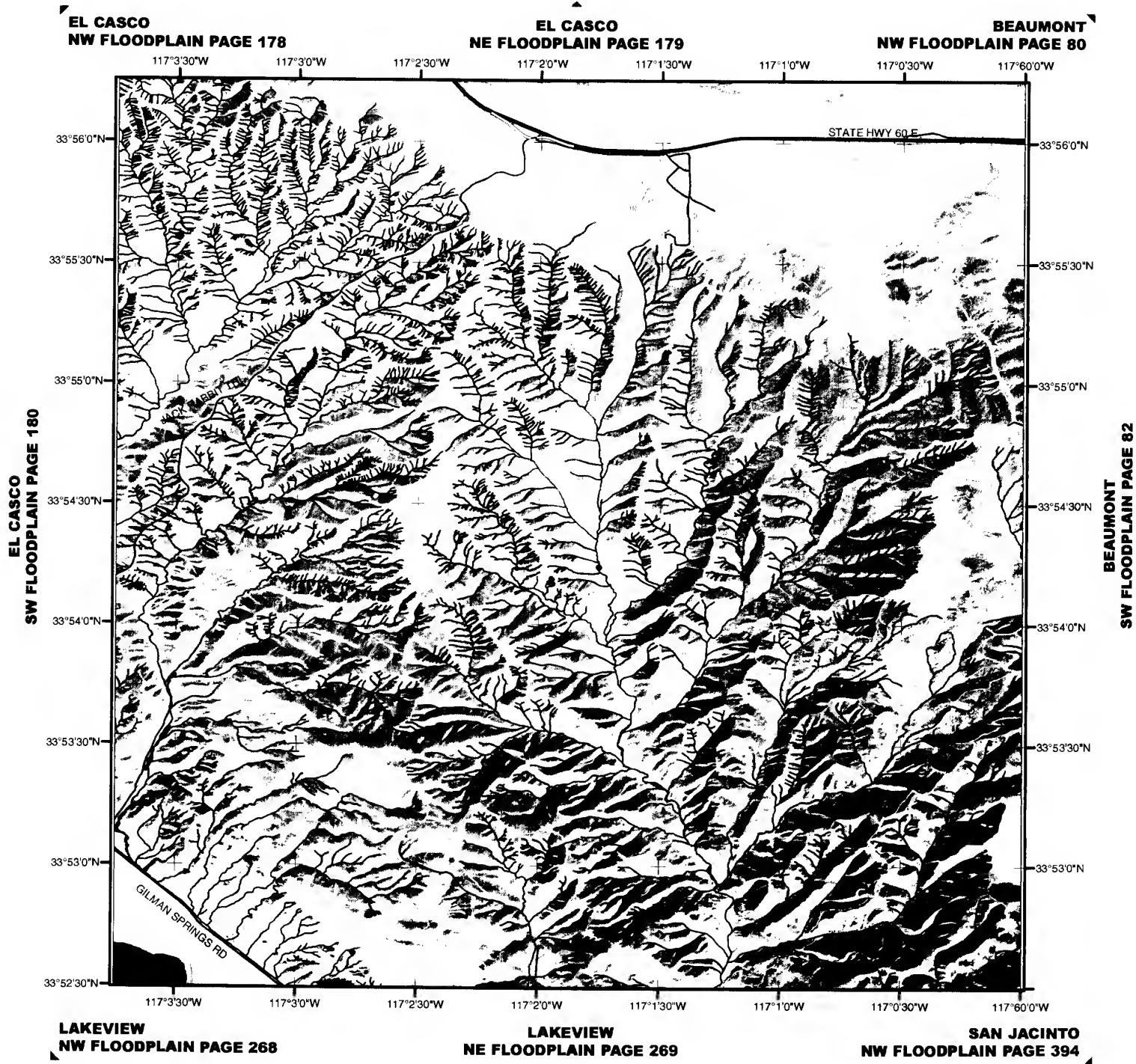




# El Casco South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



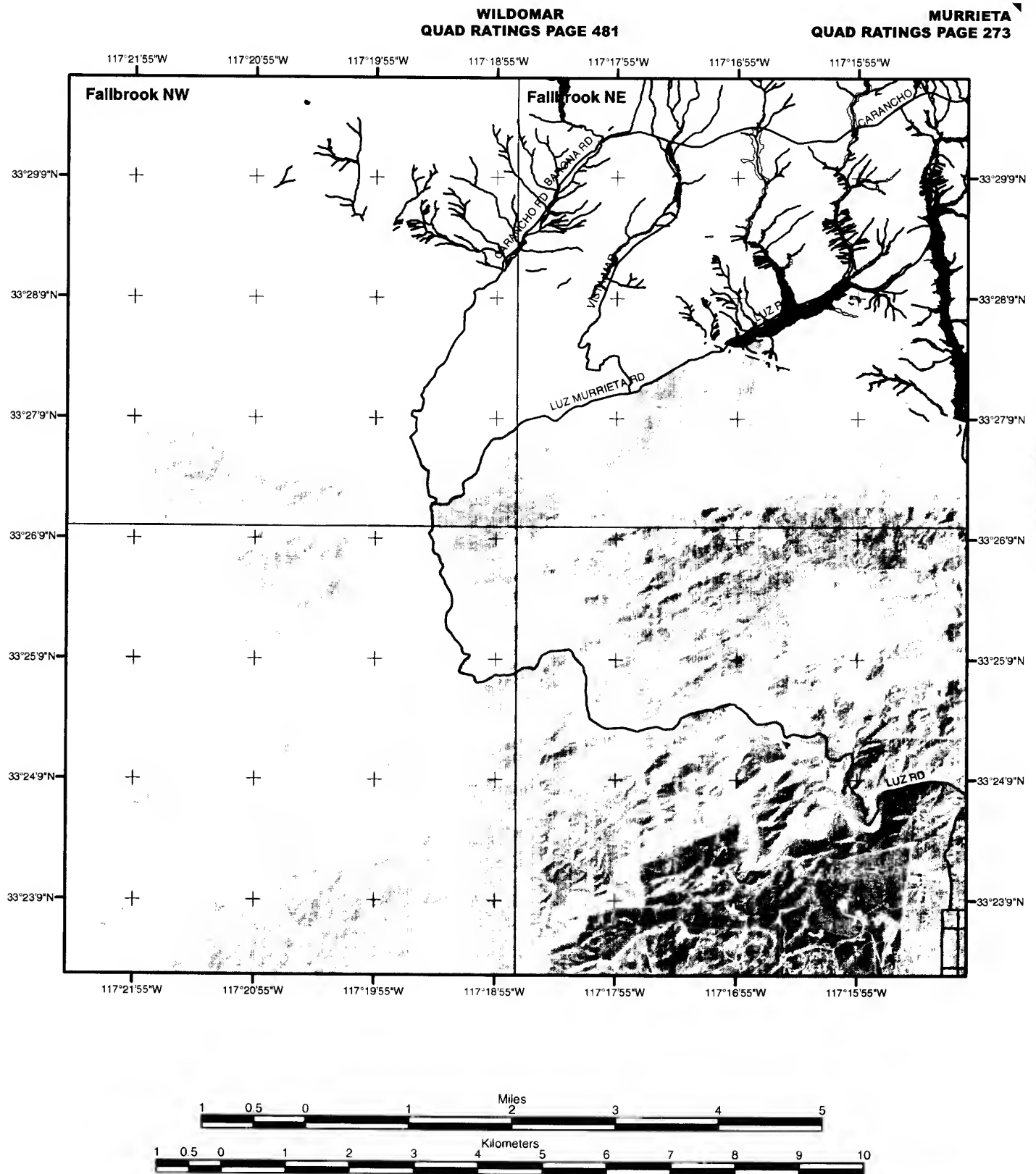
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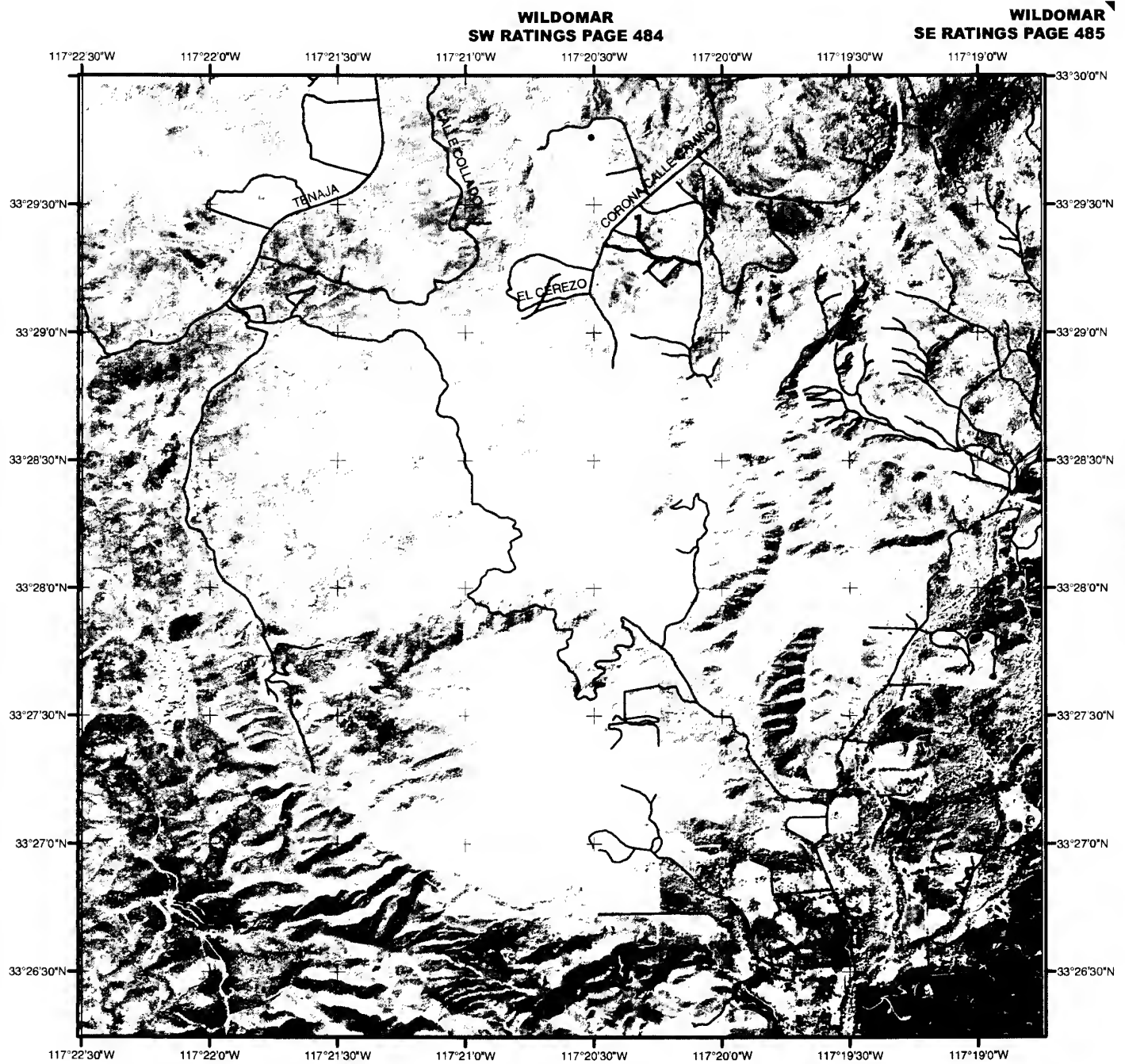


# Fallbrook Quadrangle

## Regulatory Probability Ratings for Aquatic Resources

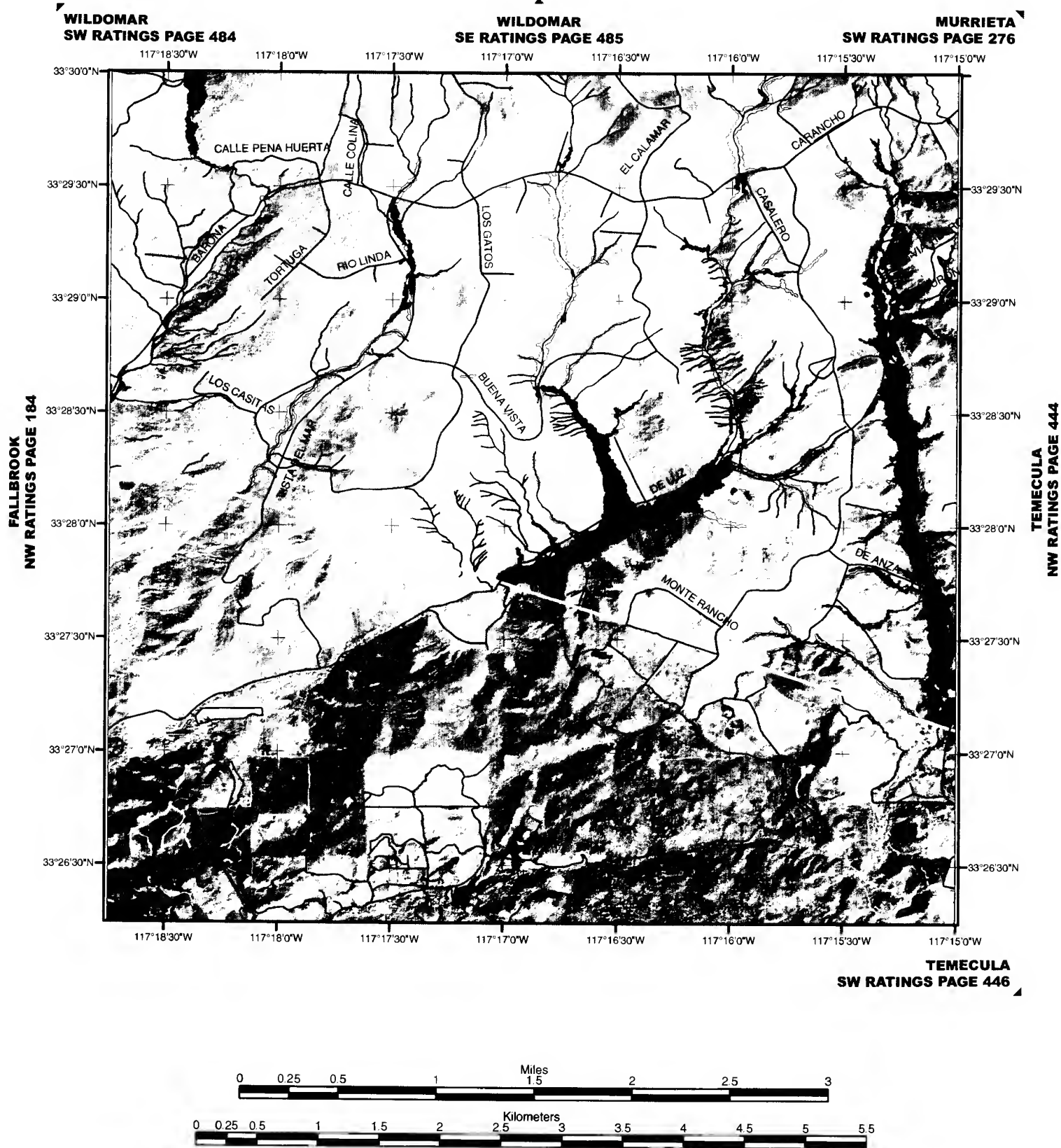


# Fallbrook North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



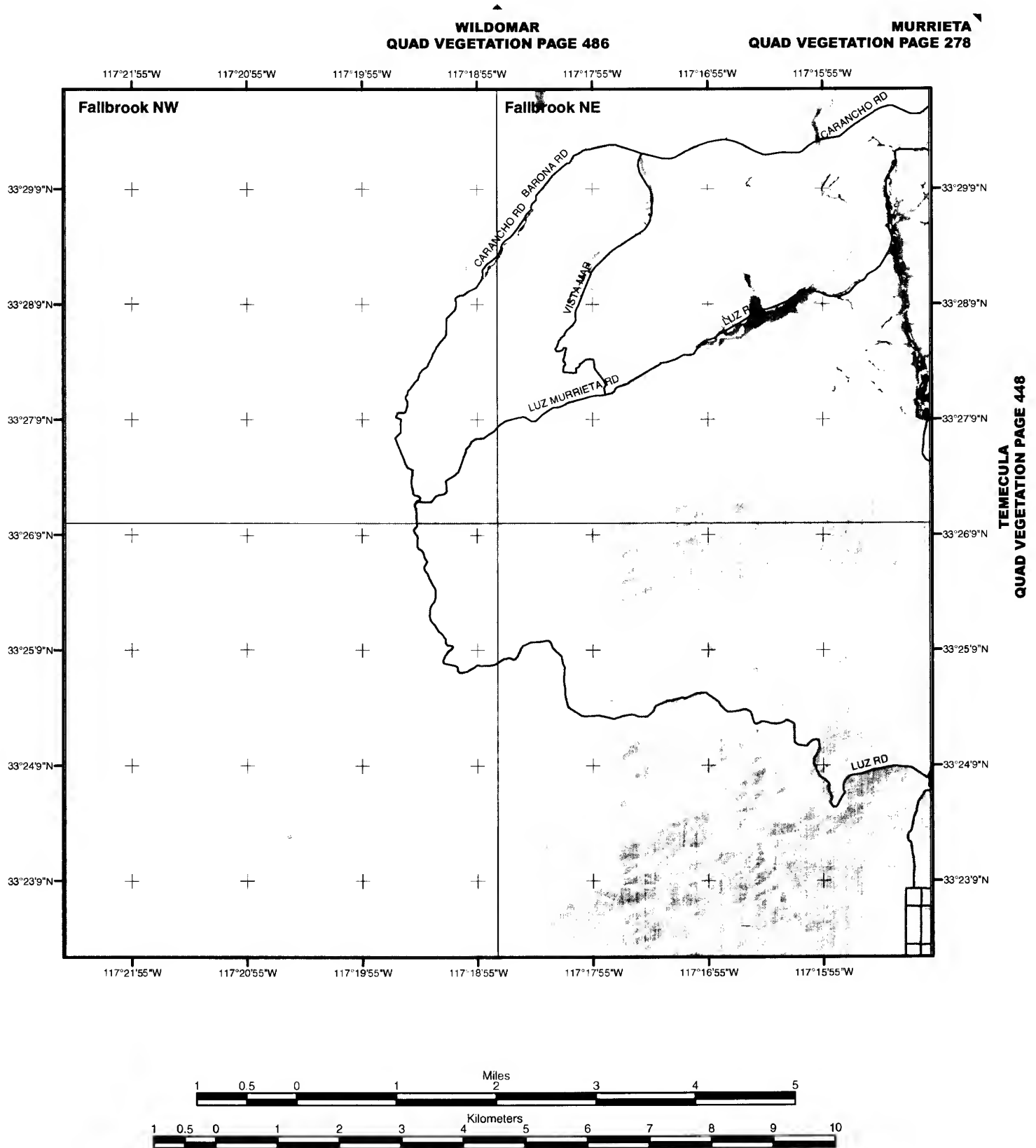
FALLBROOK  
NE RATINGS PAGE 185

# Fallbrook North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



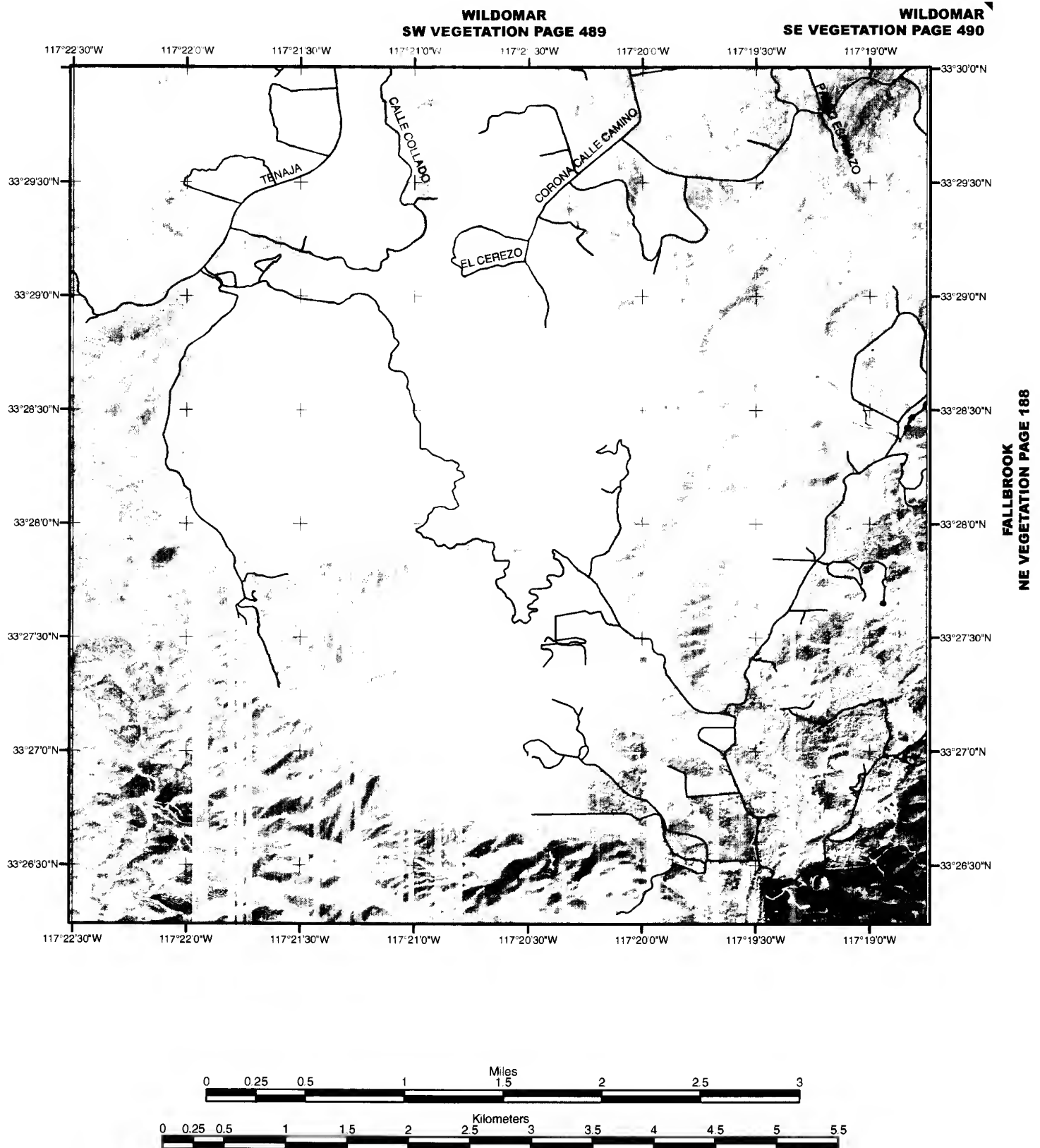
# Fallbrook Quadrangle

## Vegetation Species Association Units for Aquatic Resources



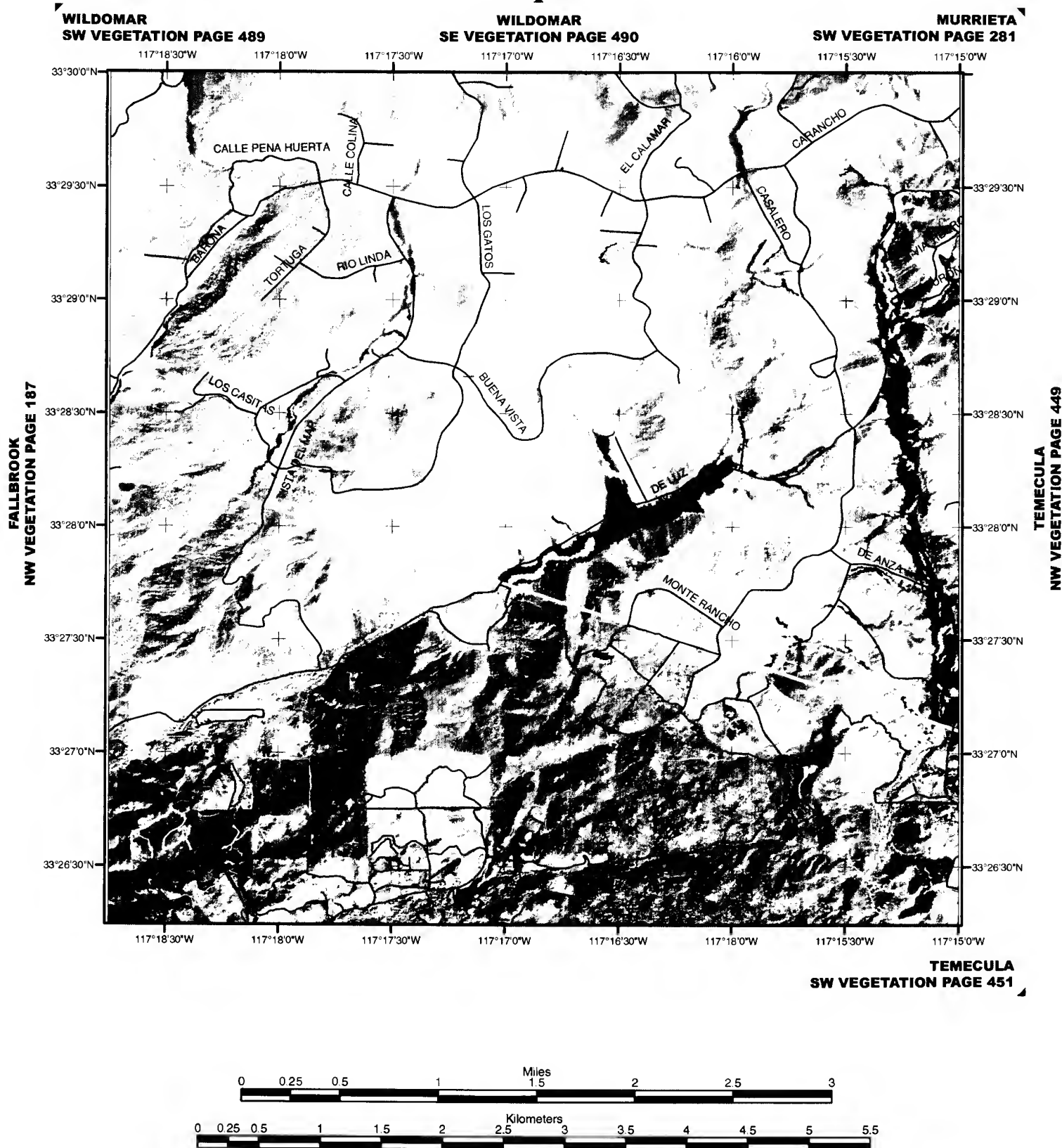


# Fallbrook North West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



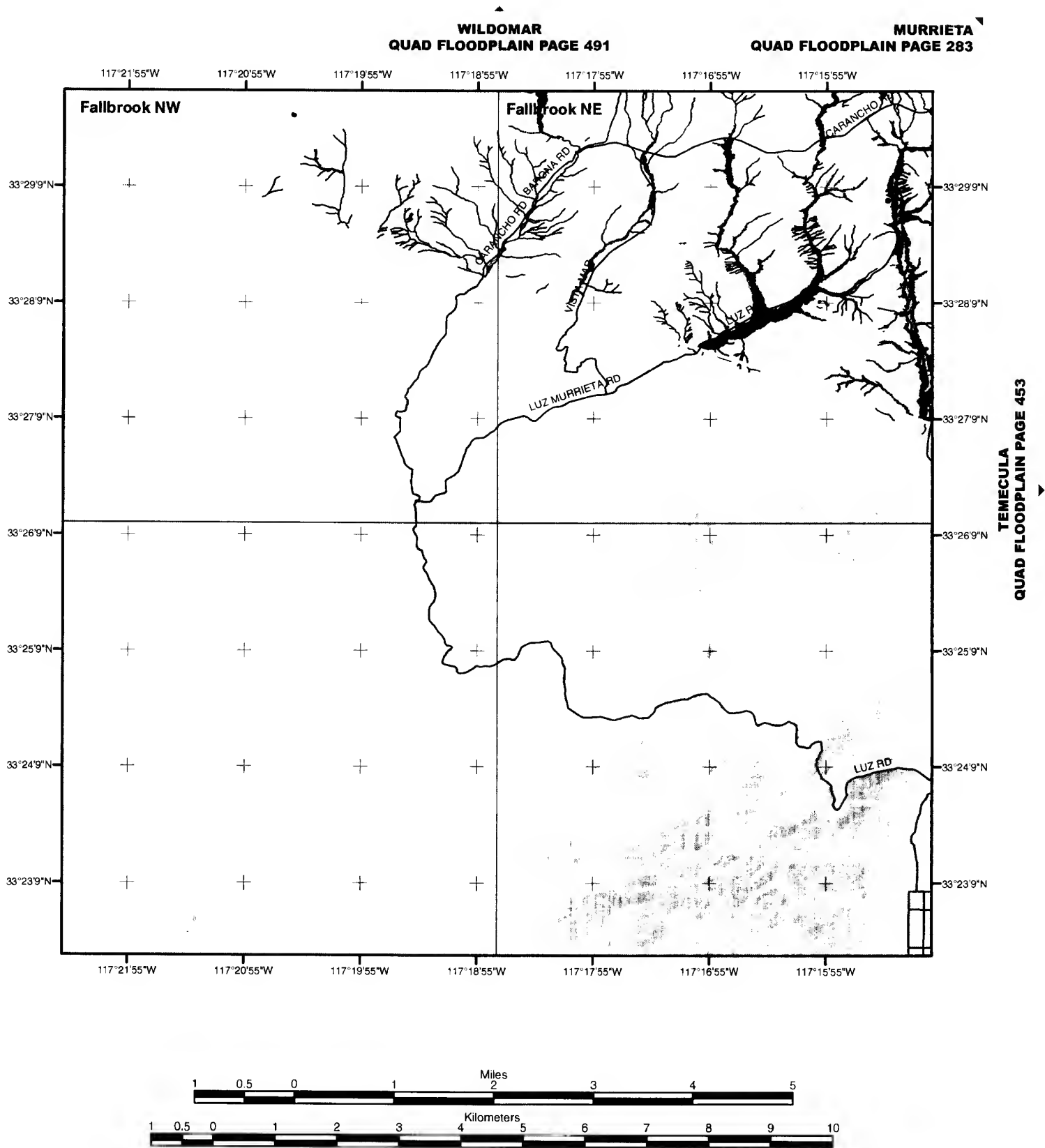


# Fallbrook North East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

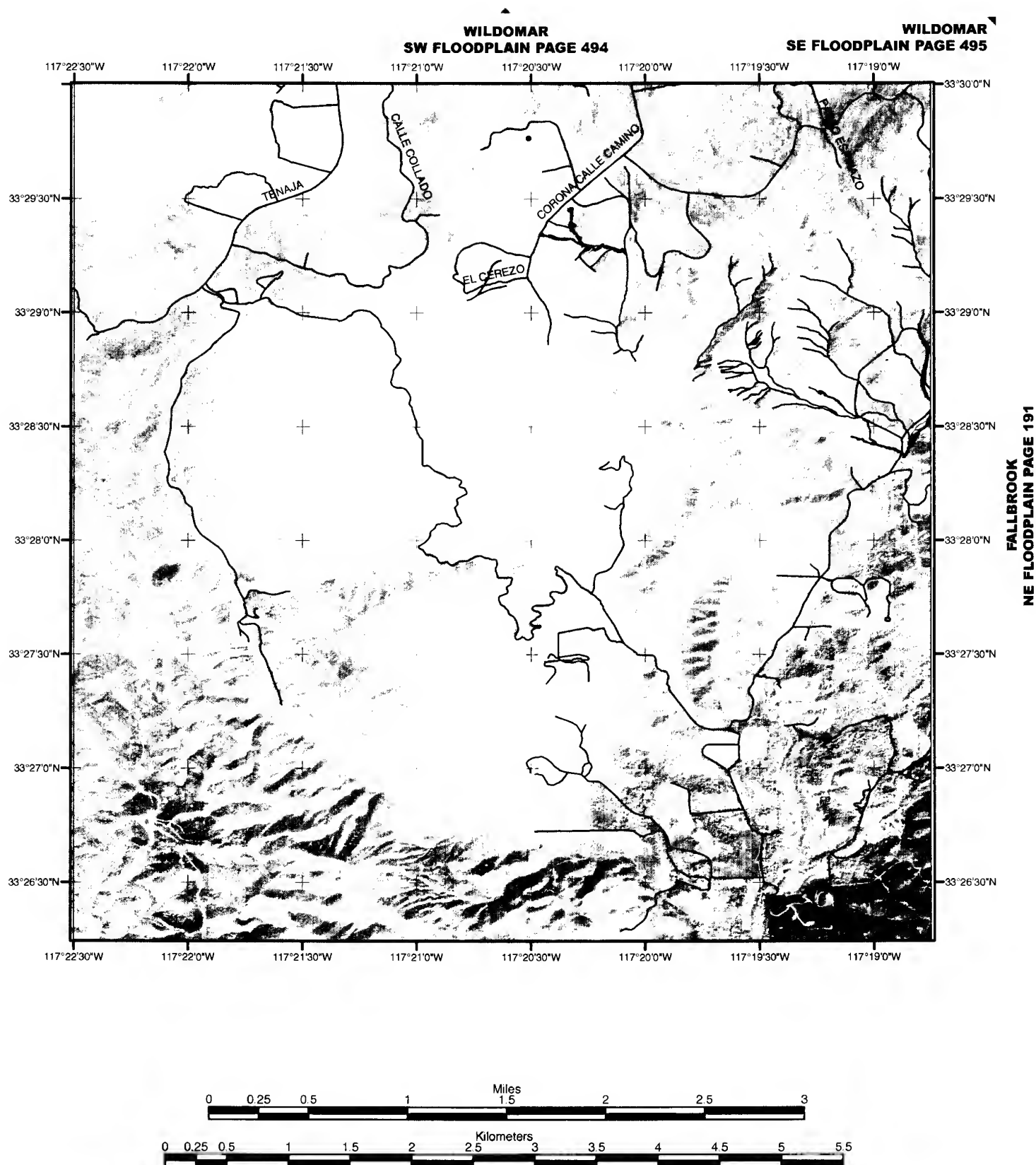


# Fallbrook Quadrangle

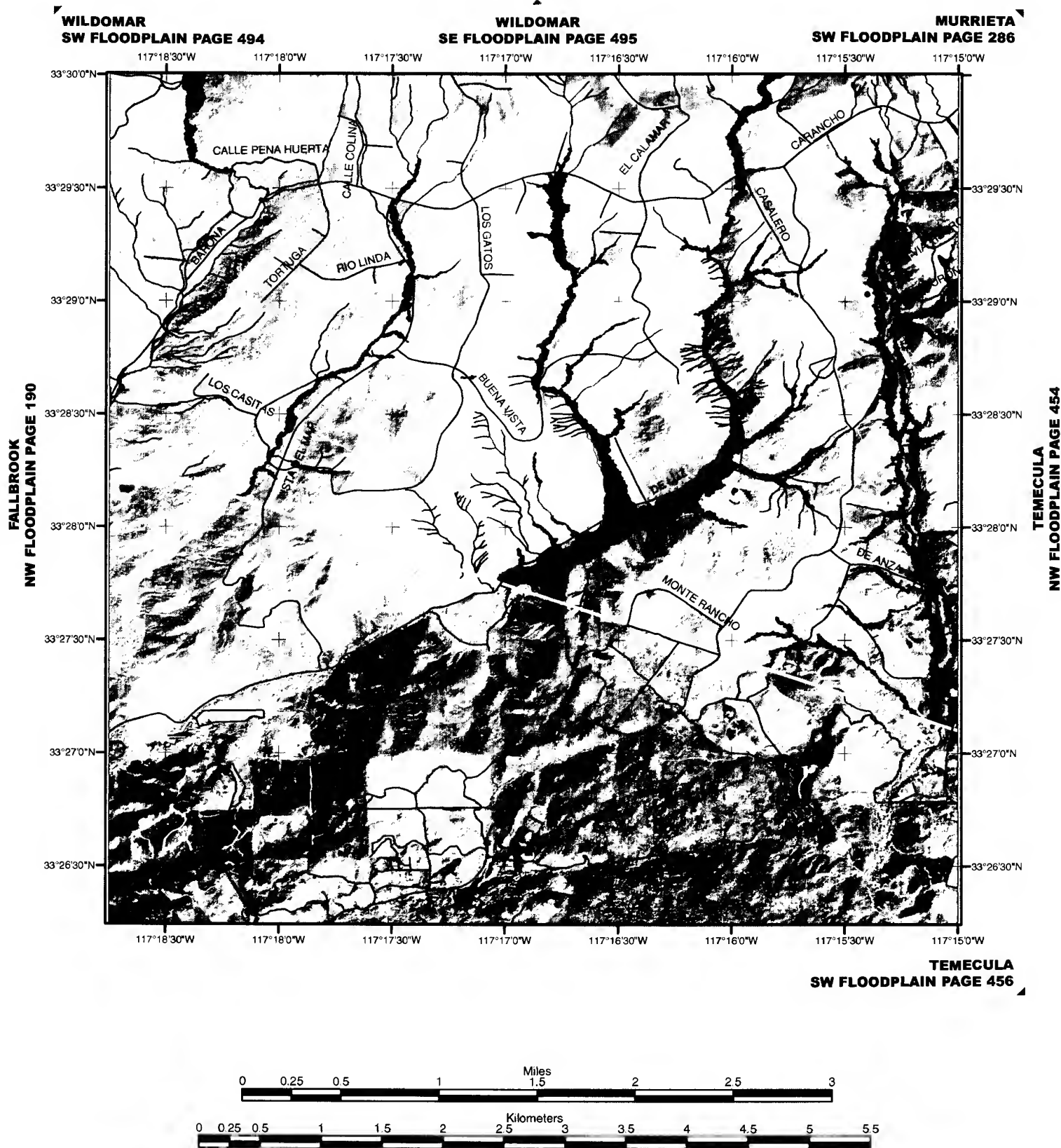
## Hydrogeomorphic Floodplain Units for Aquatic Resources



# Fallbrook North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



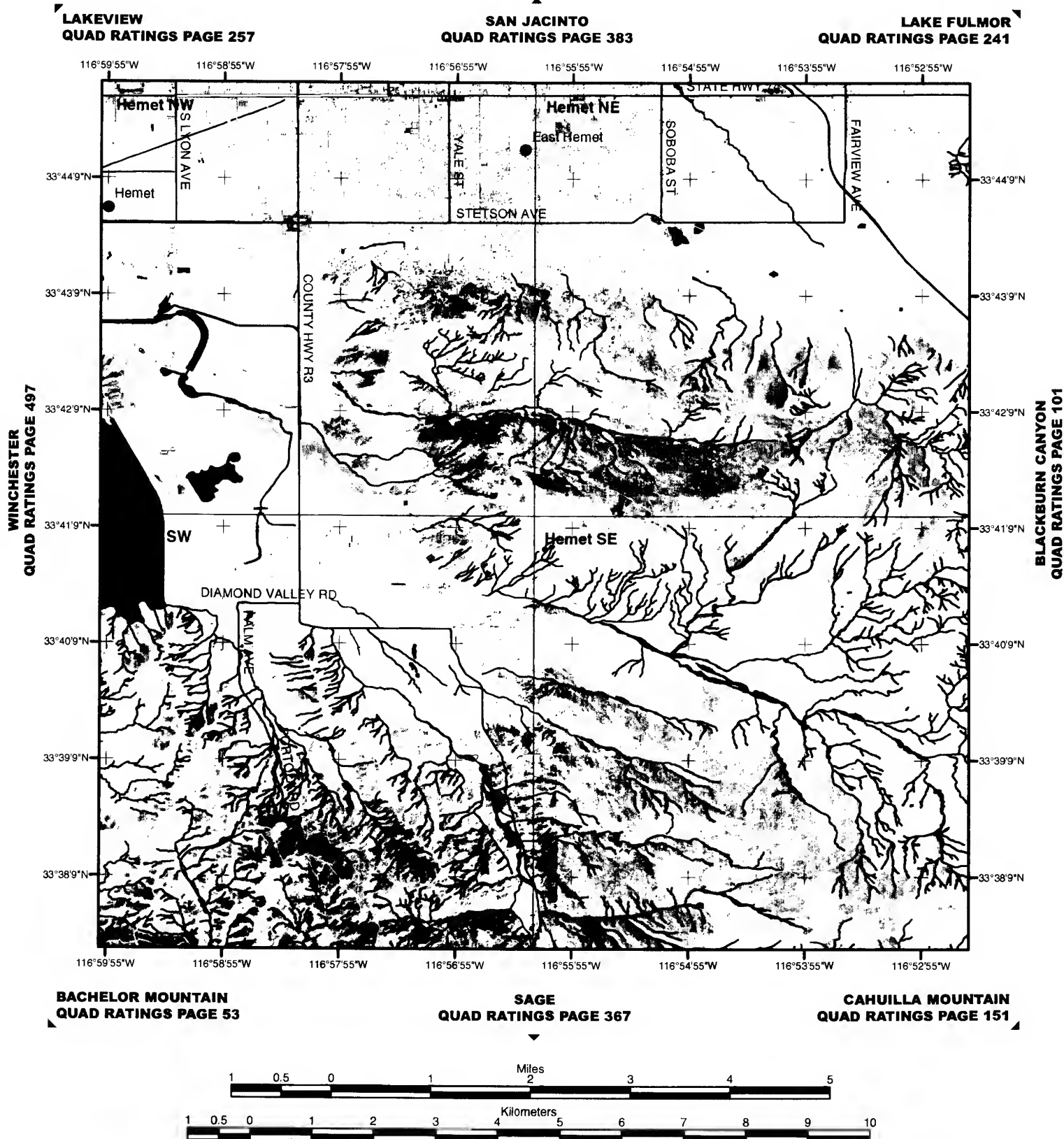
# Fallbrook North East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



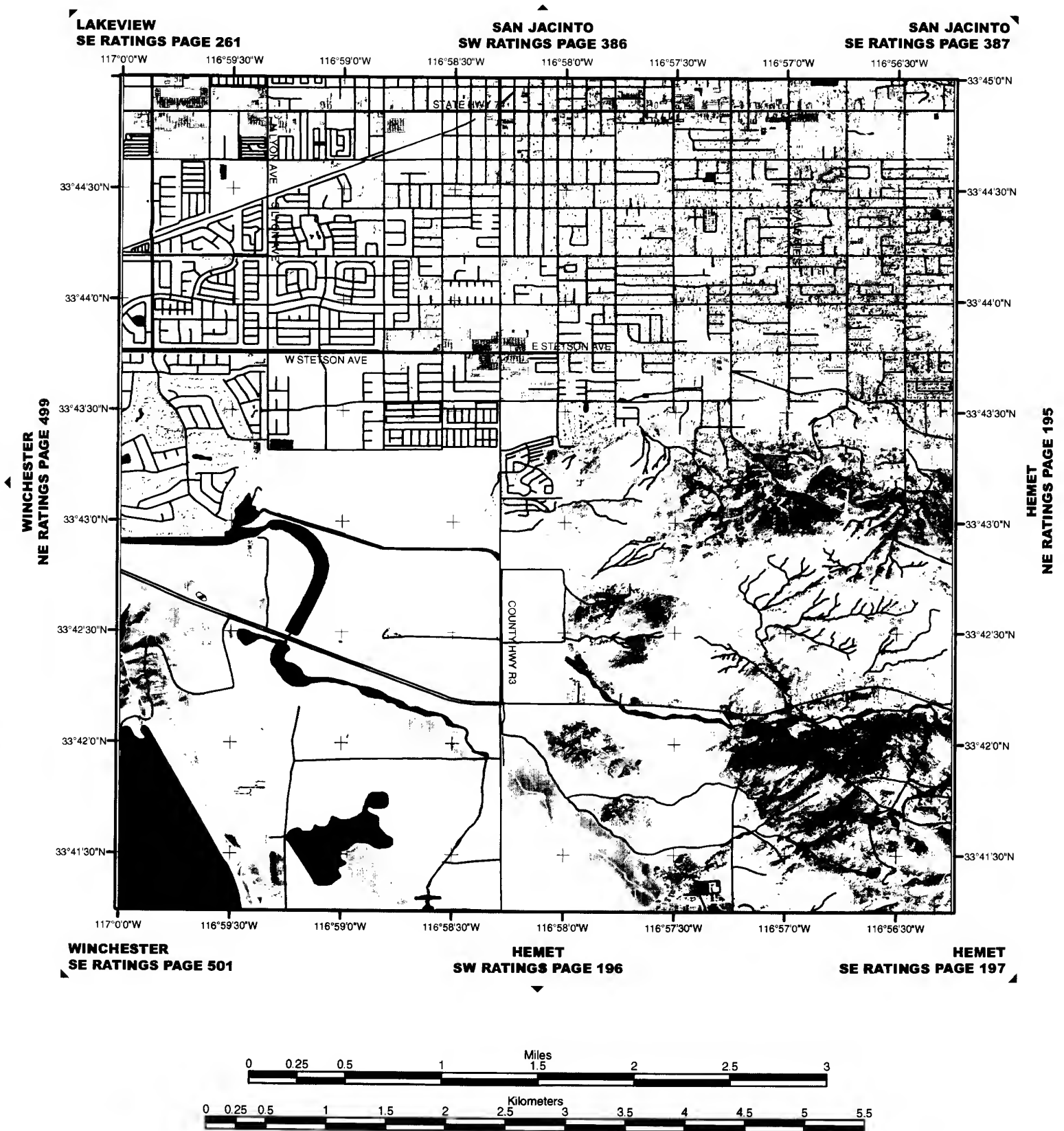


# Hemet Quadrangle

## Regulatory Probability Ratings for Aquatic Resources

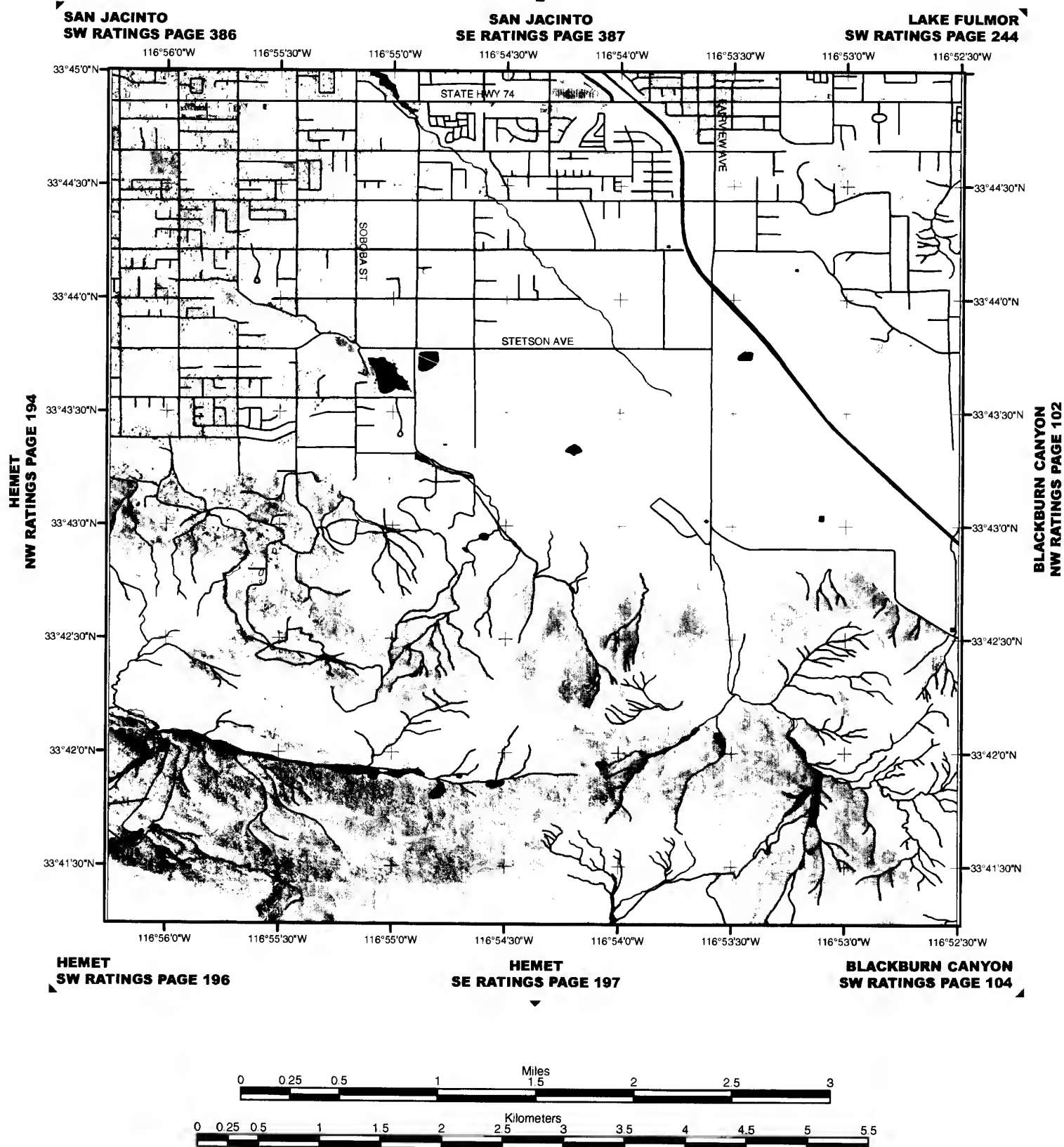


# Hemet North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



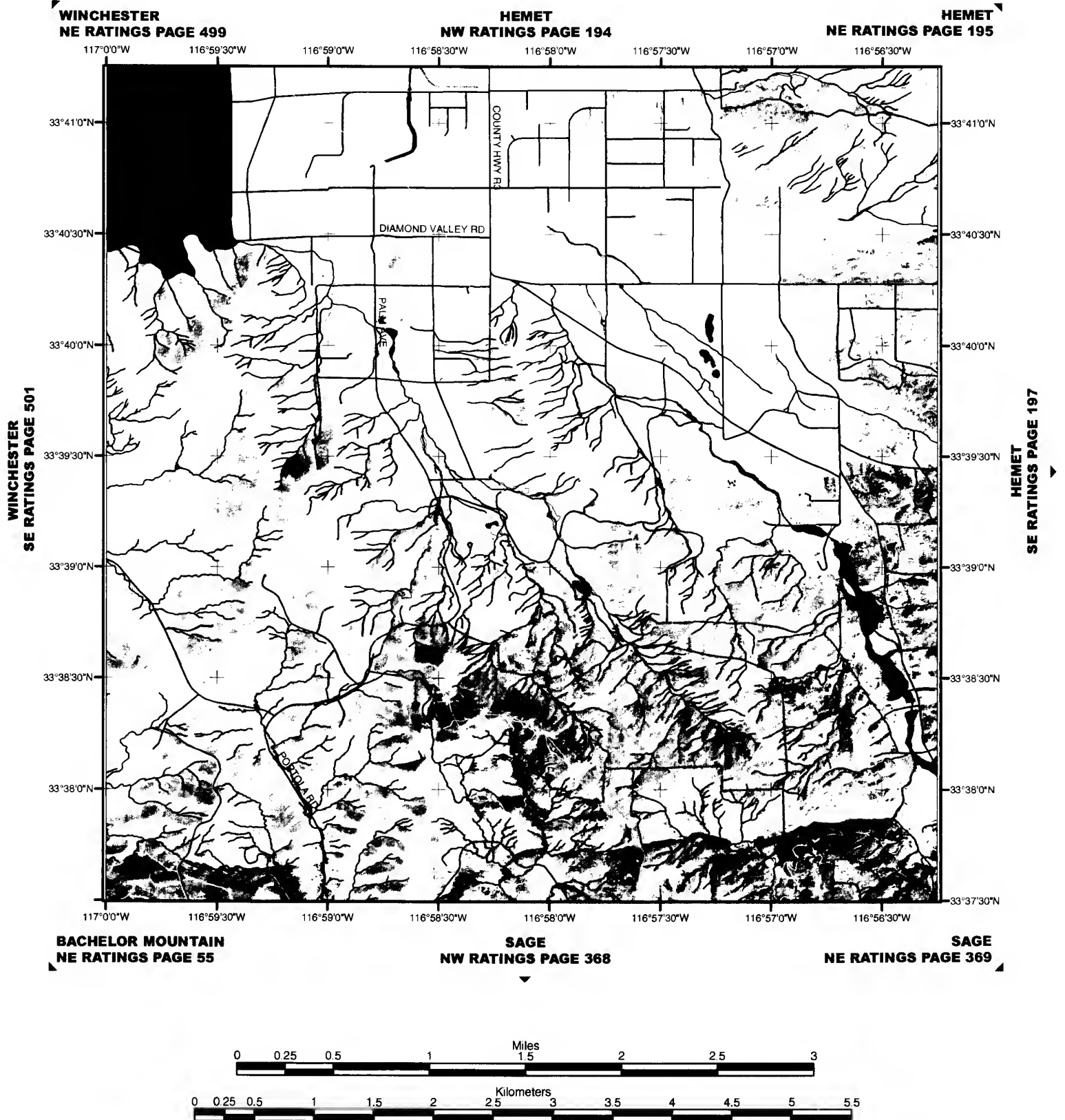


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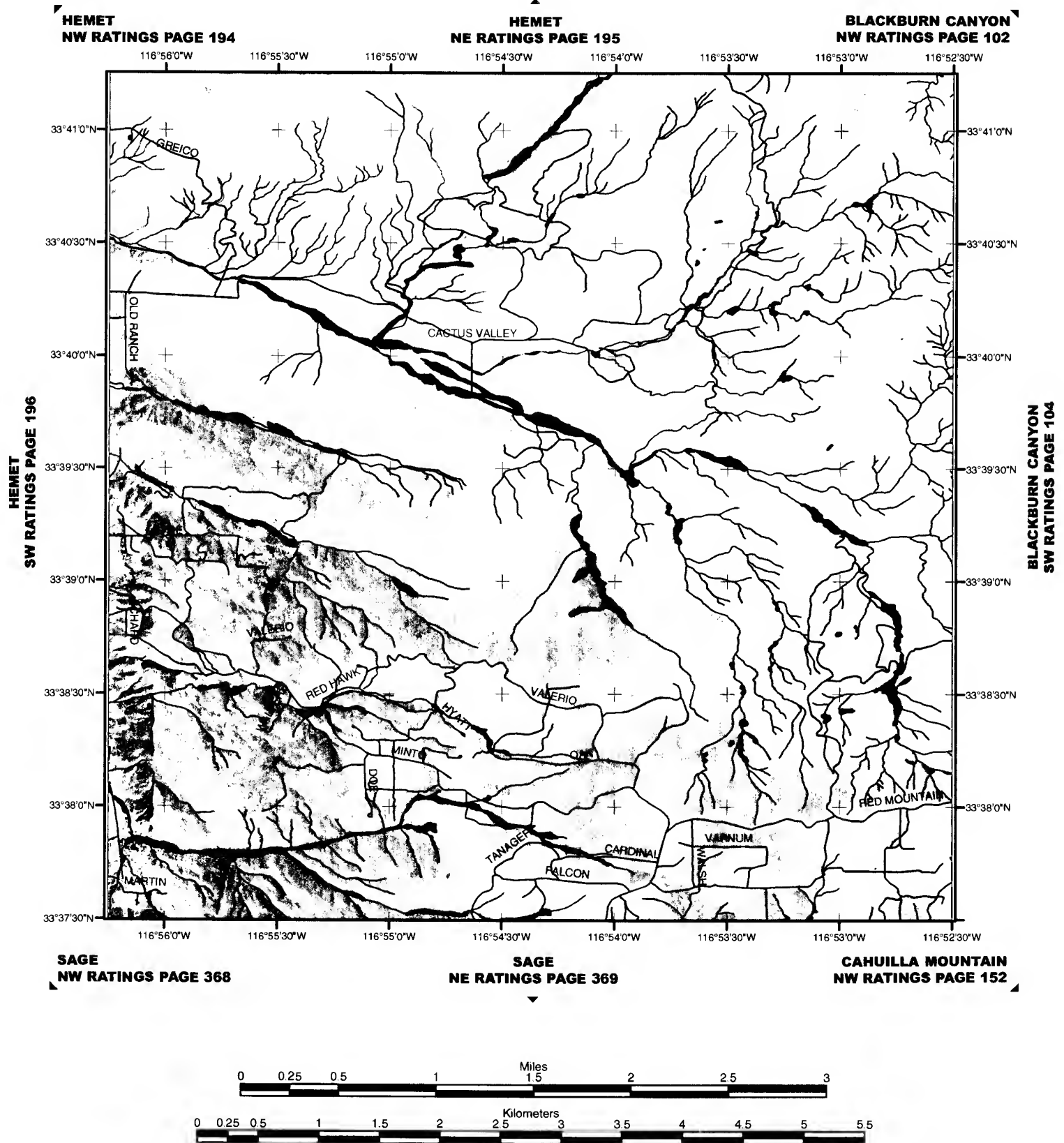




# Hemet South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

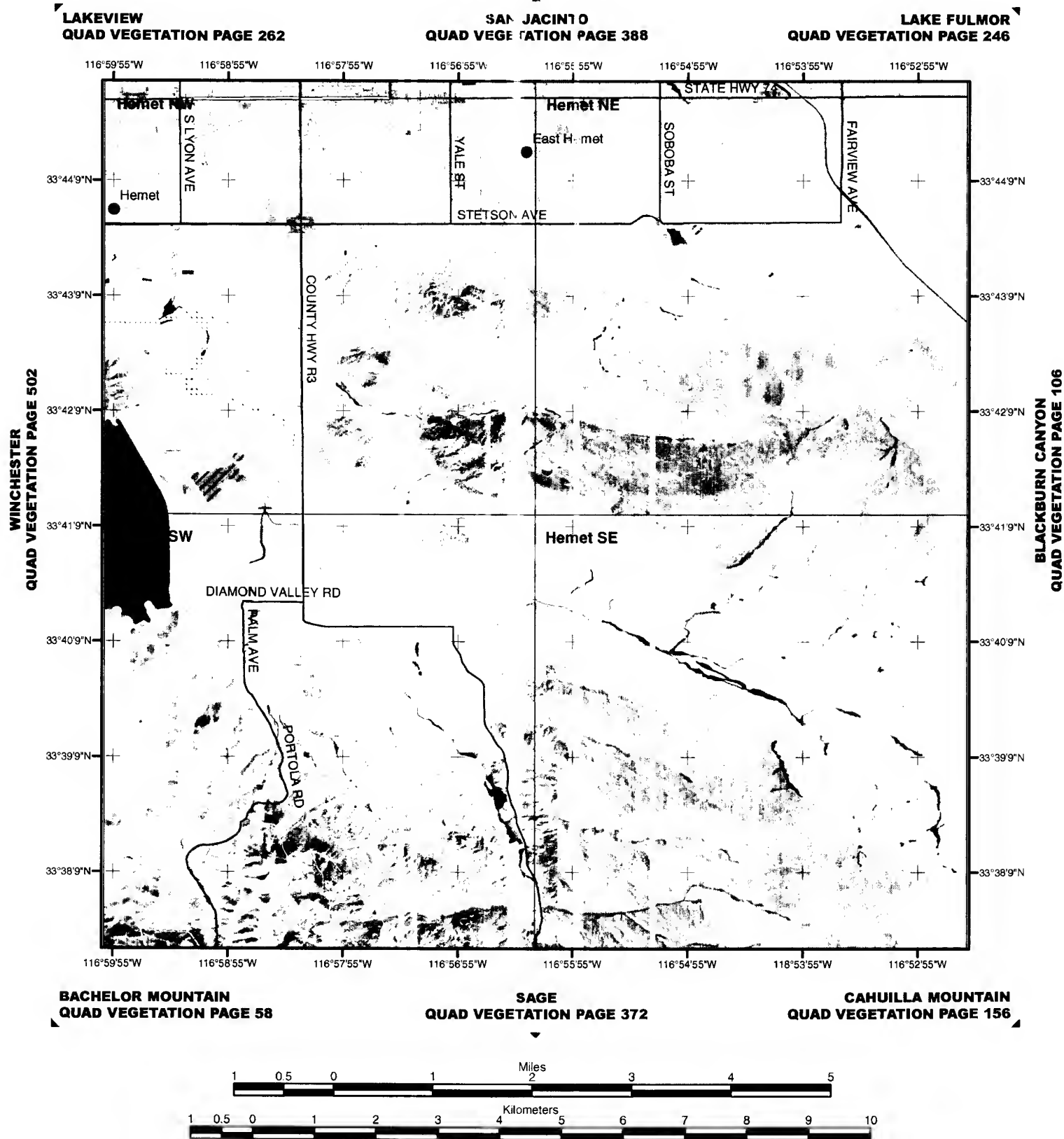


# Hemet South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



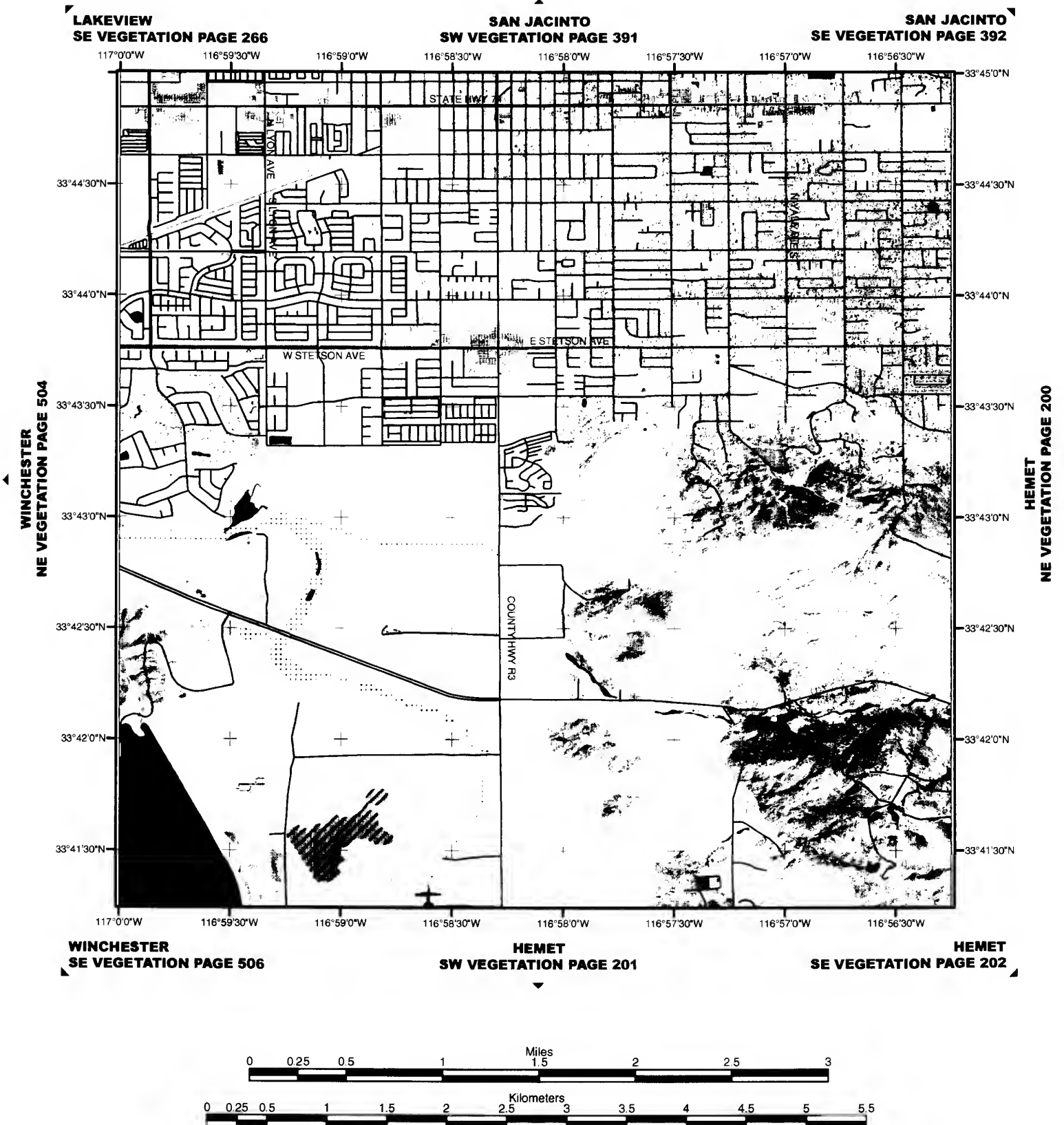
# Hemet Quadrangle

## Vegetation Species Association Units for Aquatic Resources



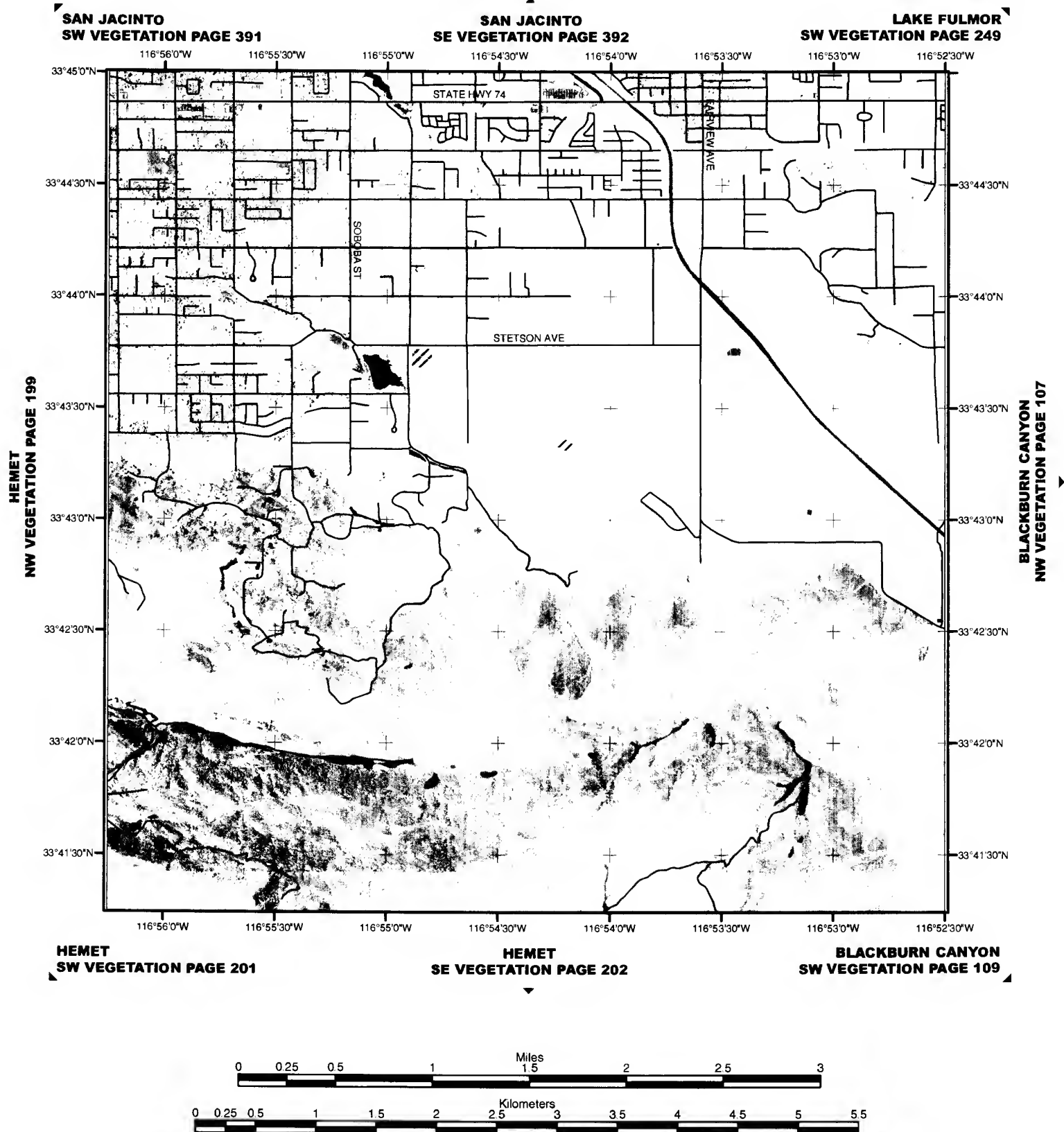
# Hemet North West Quarter-Quadrangle

## Vegetation Species Association Units for Aquatic Resources

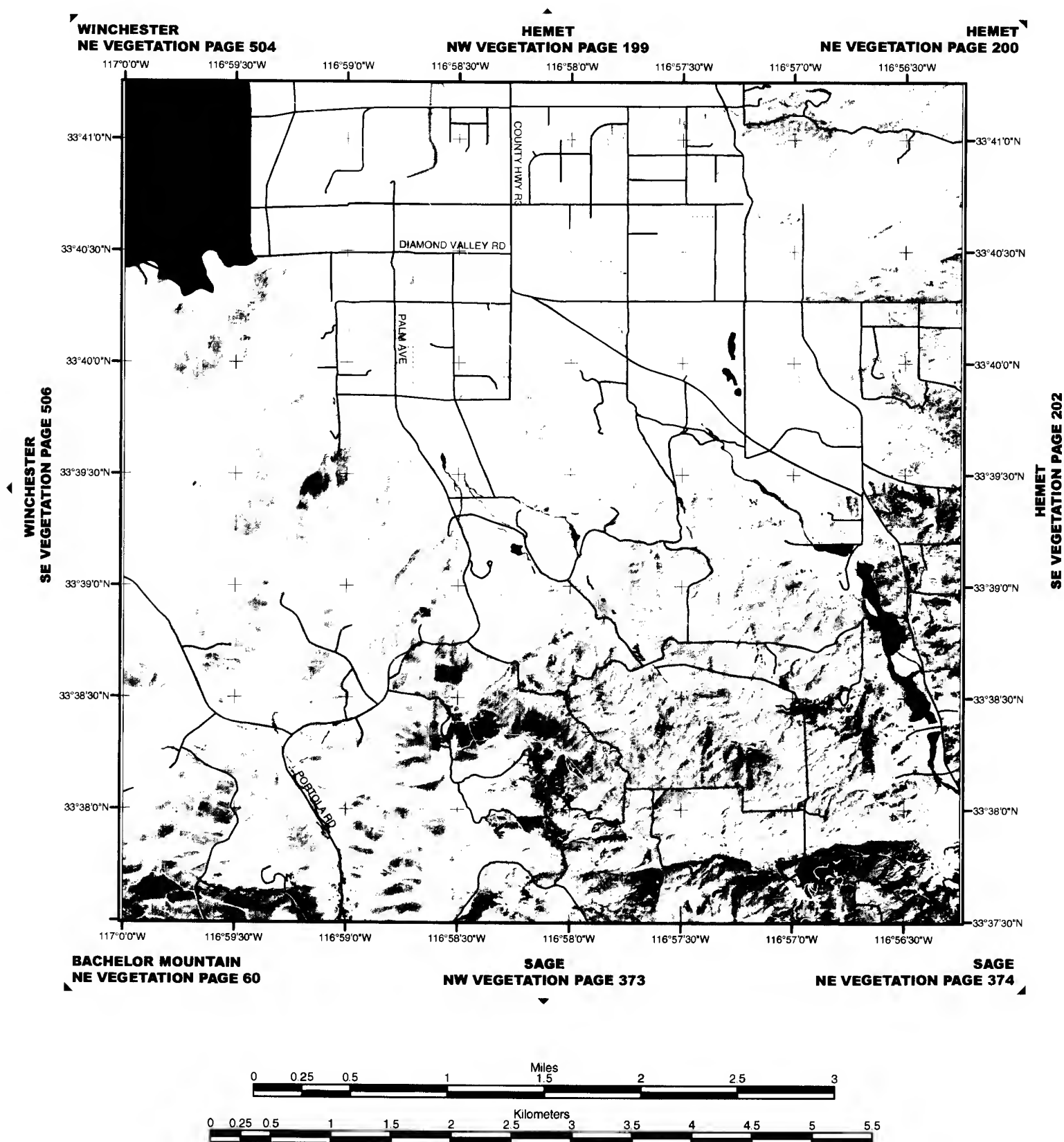


# Hemet North East Quarter-Quadrangle

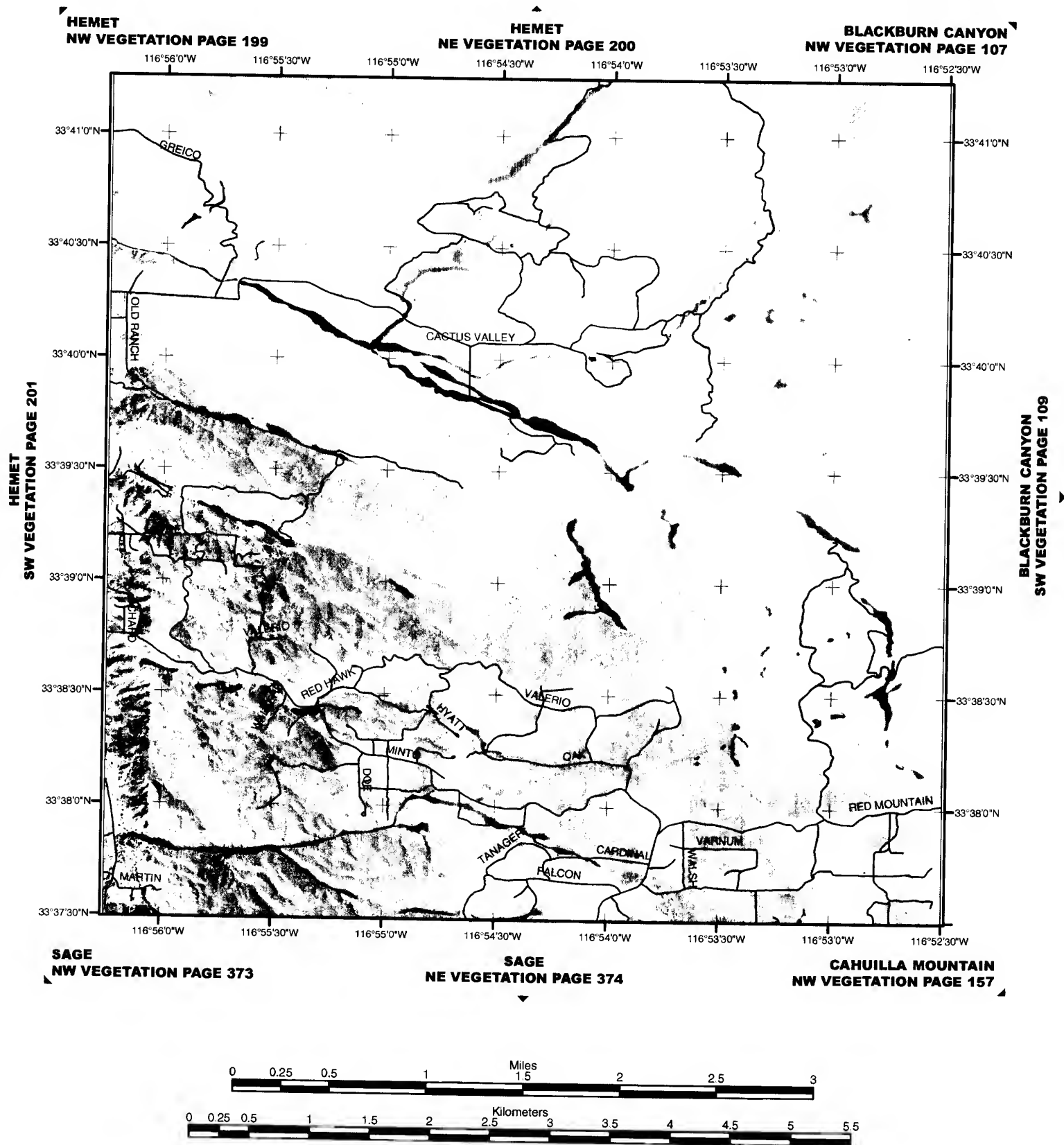
## Vegetation Species Association Units for Aquatic Resources



# Hemet South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



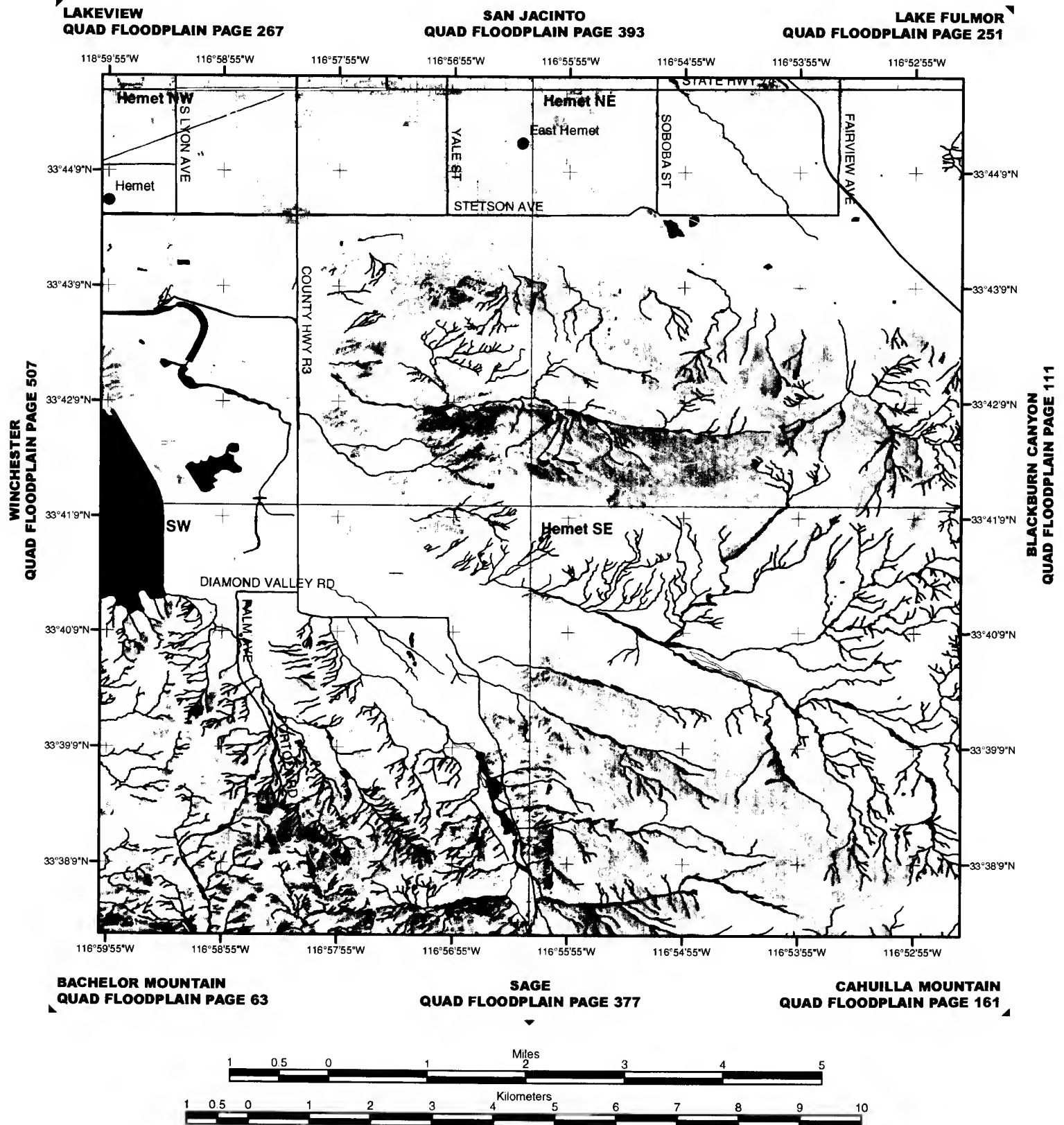
# Hemet South East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources





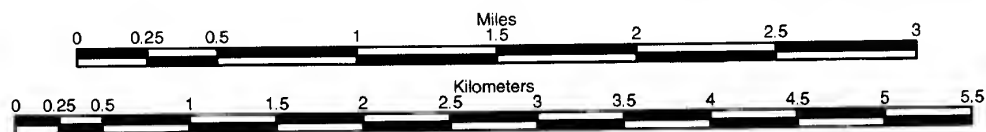
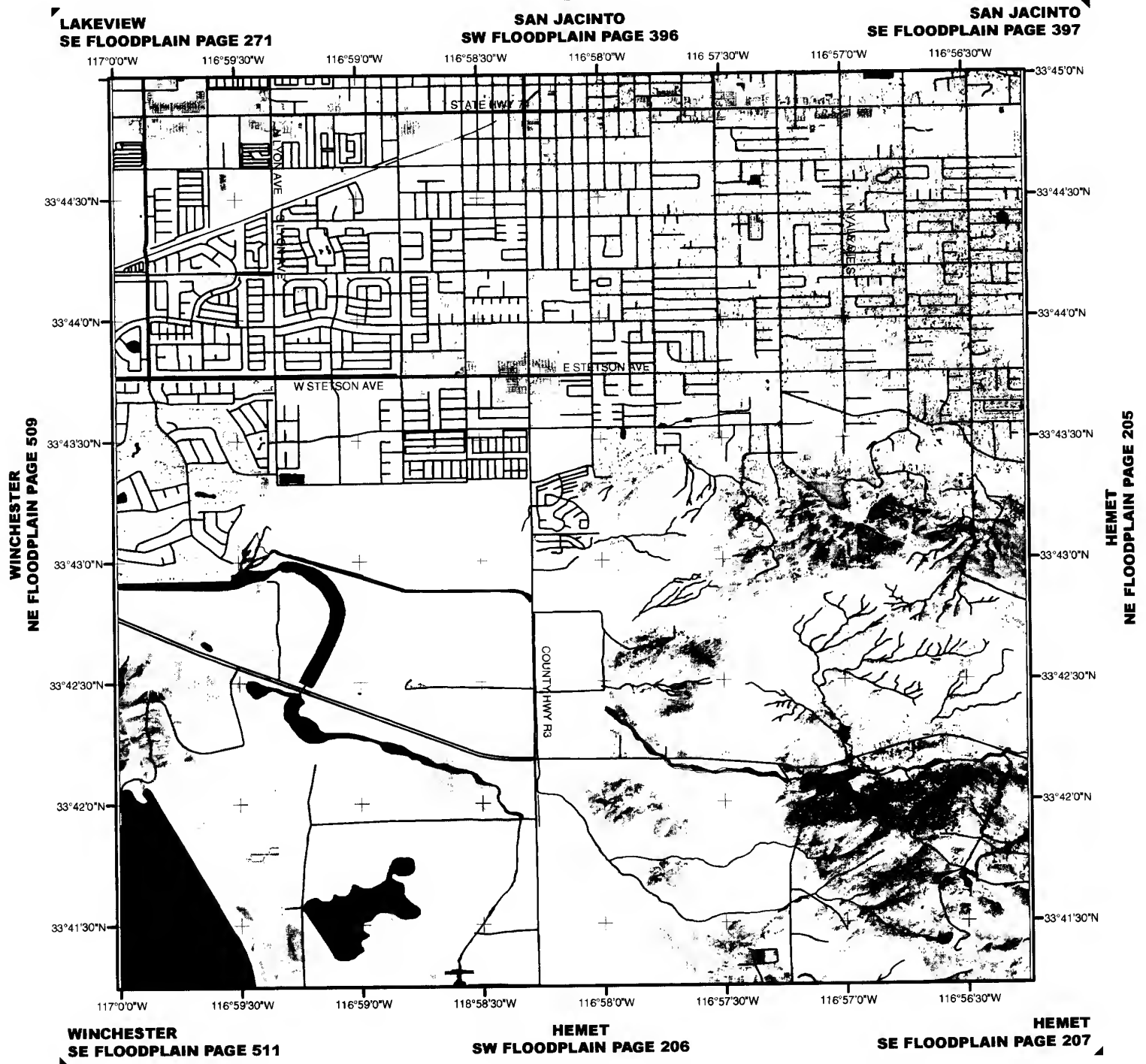
# Hemet Quadrangle

## Hydrogeomorphic Floodplain Units for Aquatic Resources

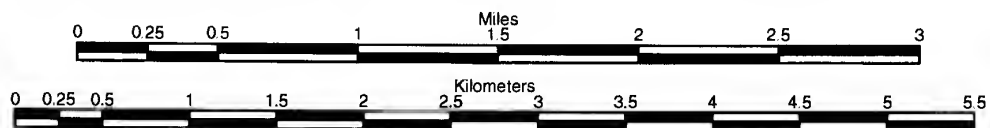
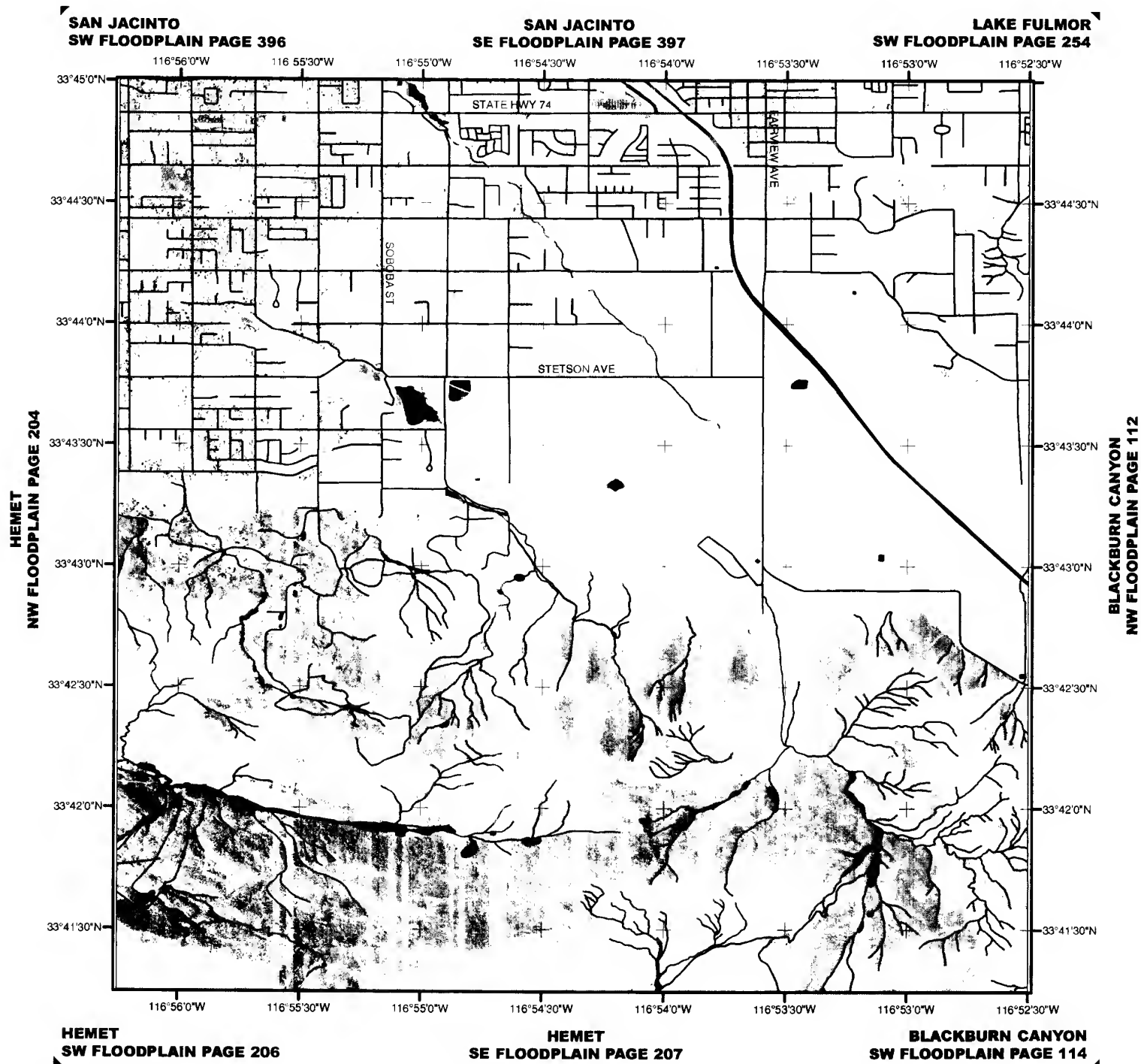




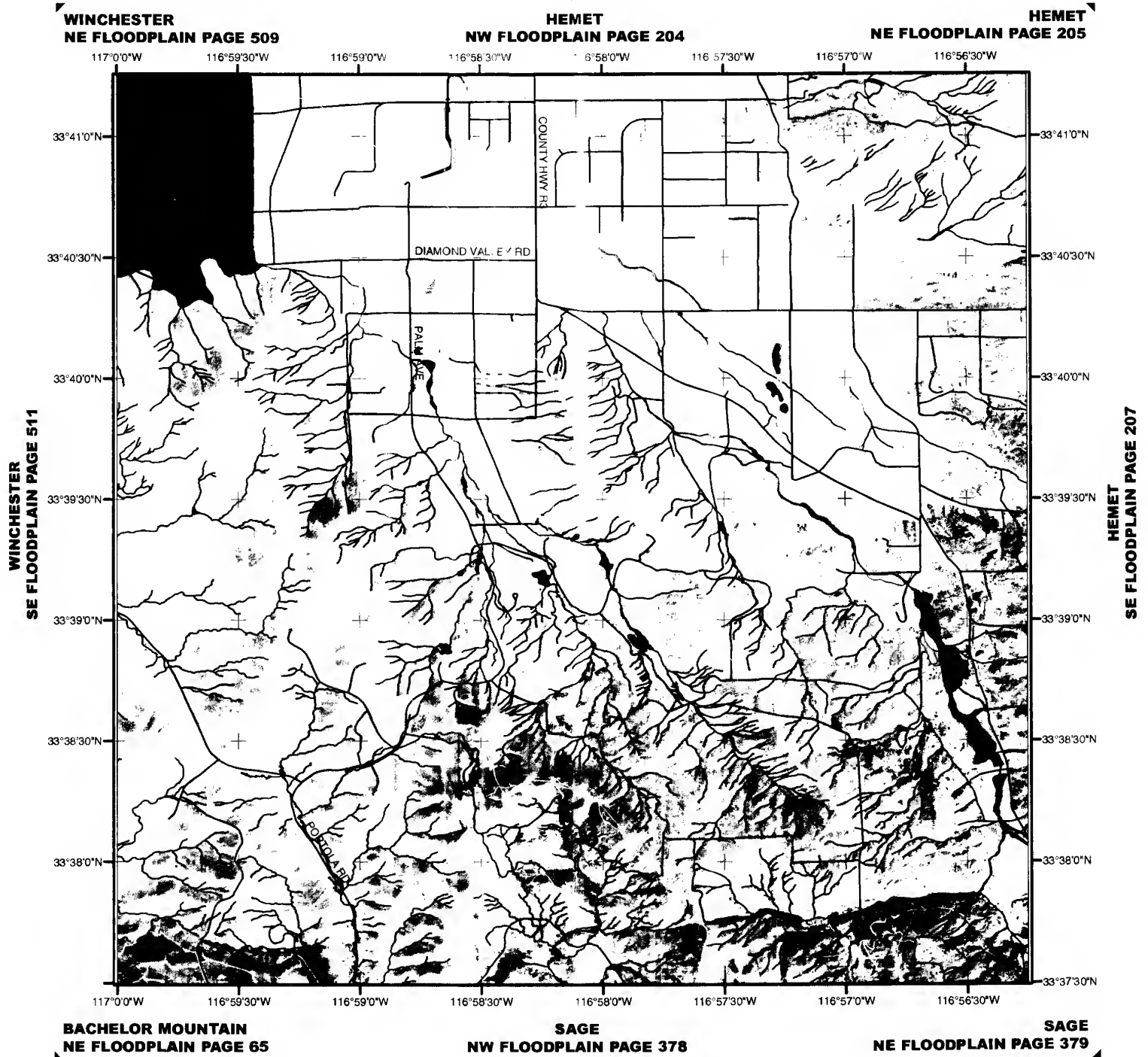
# Hemet North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



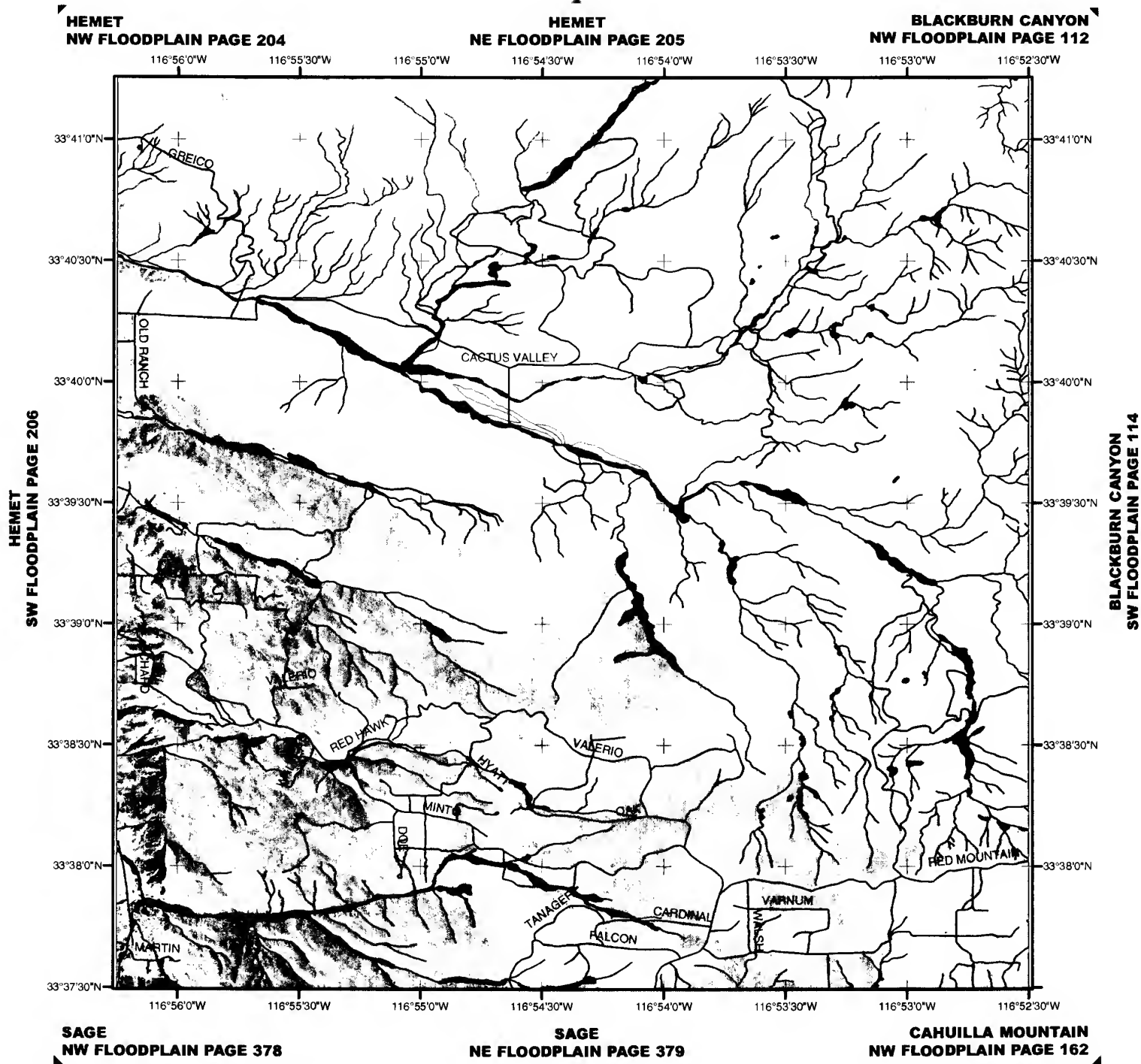
# Hemet North East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



# Hemet South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



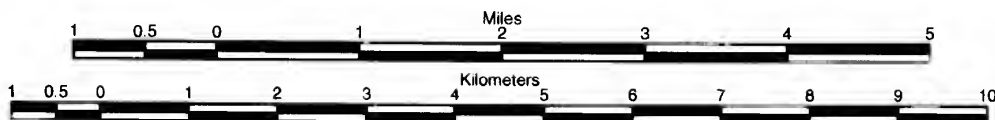
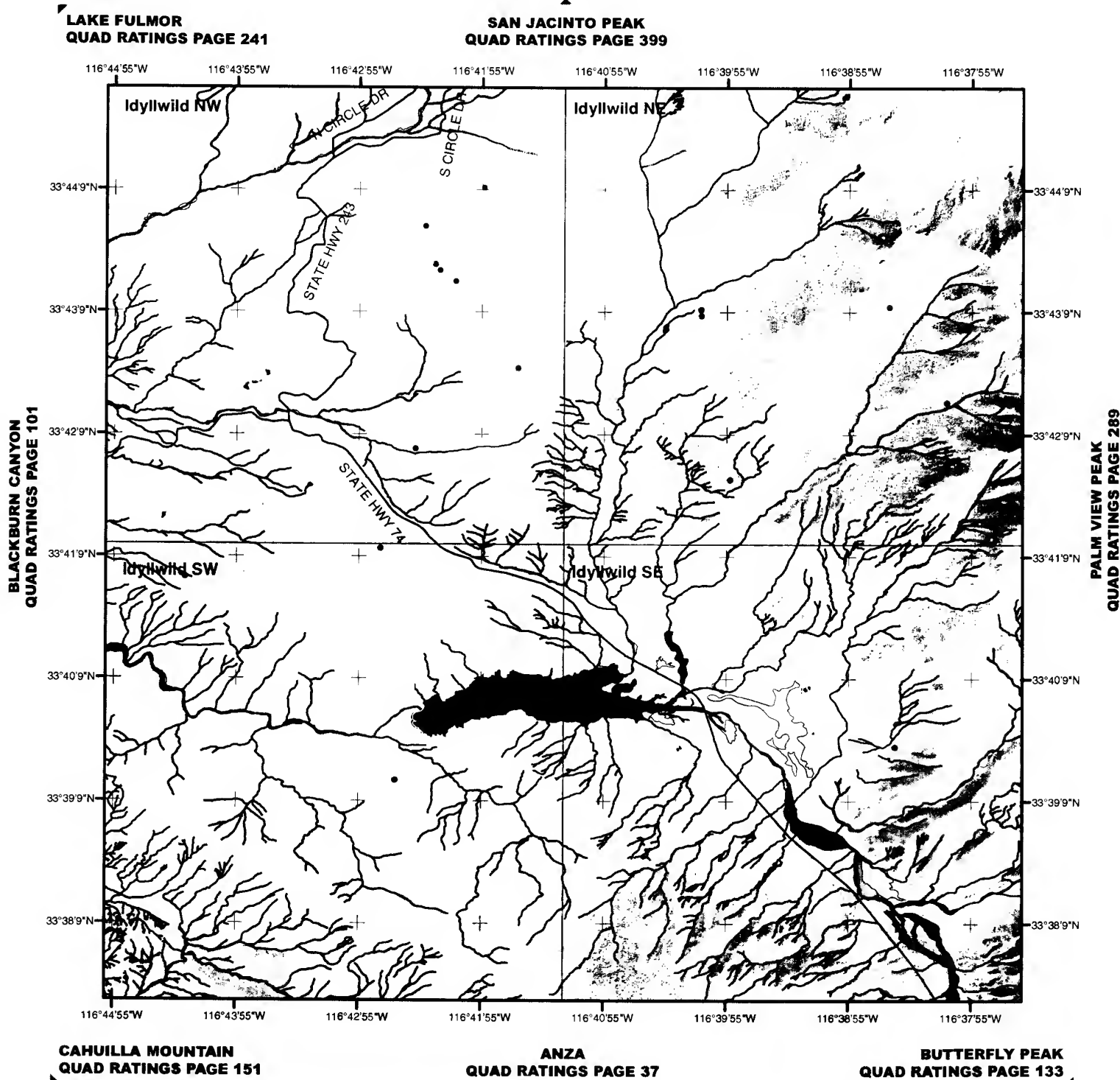
# Hemet South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



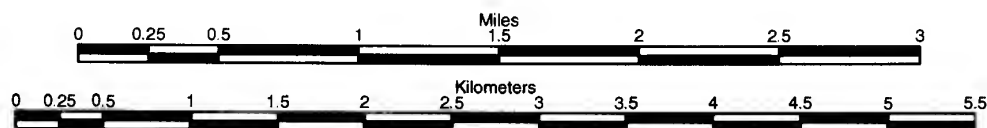
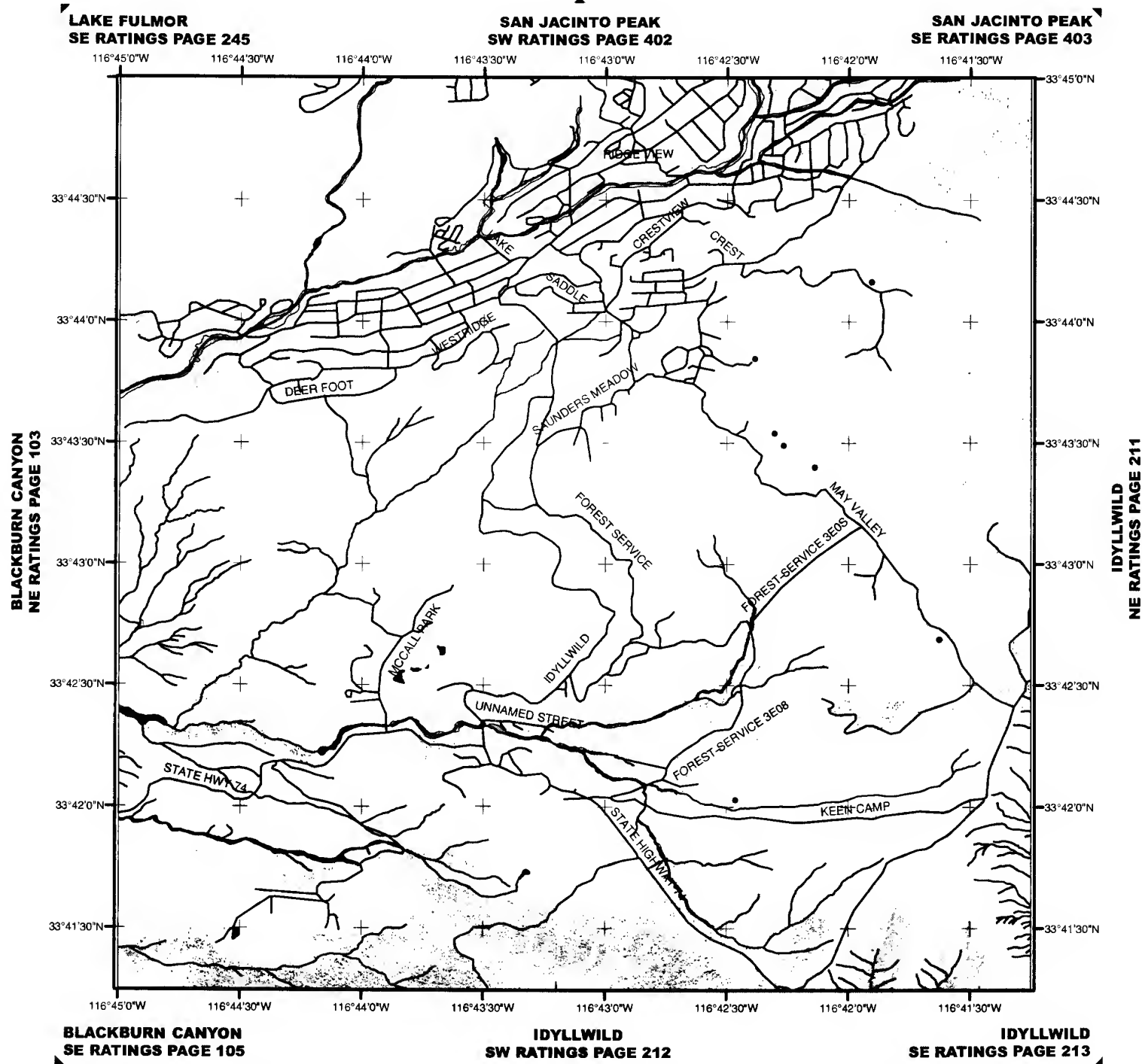


# Idyllwild Quadrangle

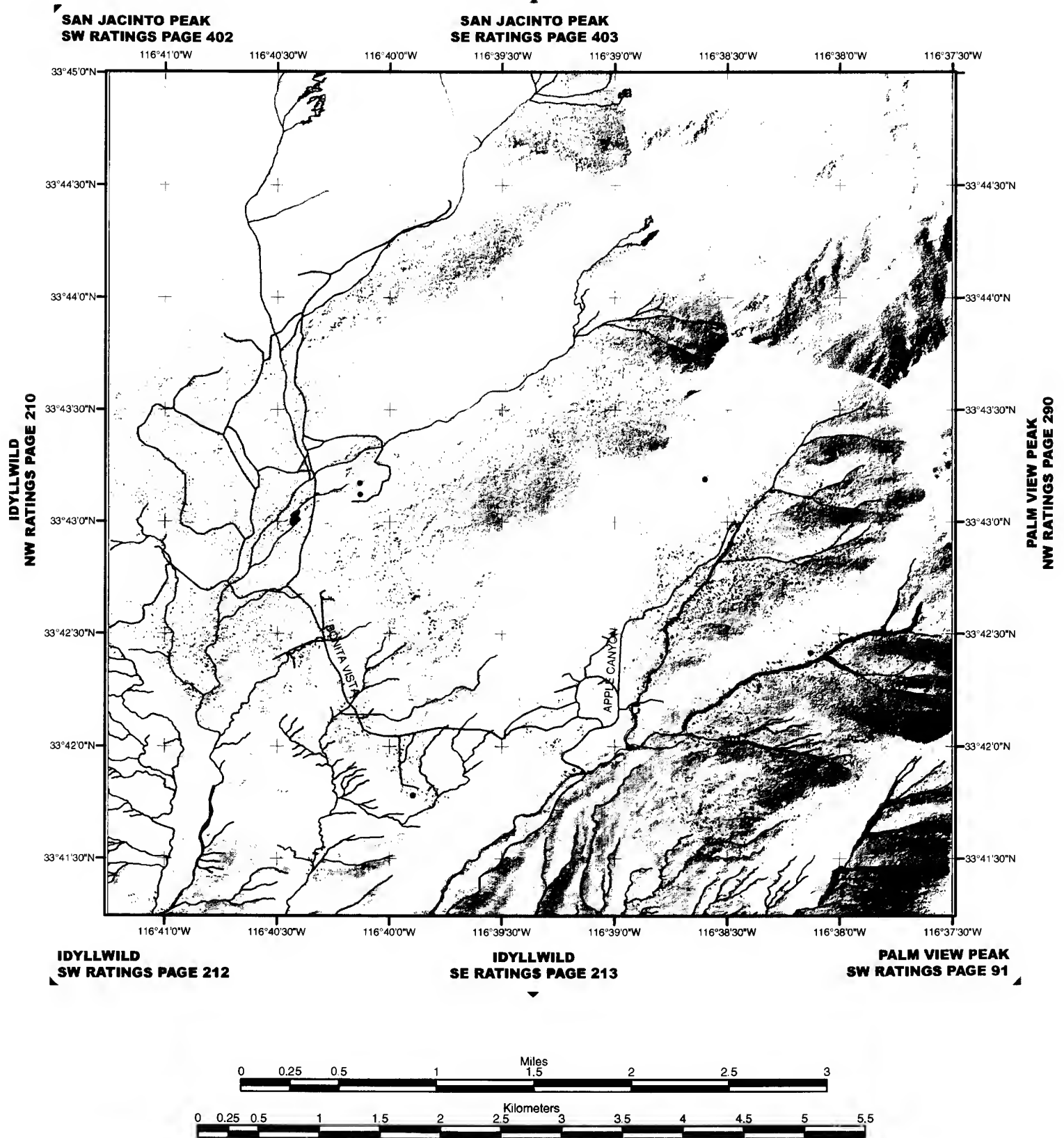
## Regulatory Probability Ratings for Aquatic Resources



# Idyllwild North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

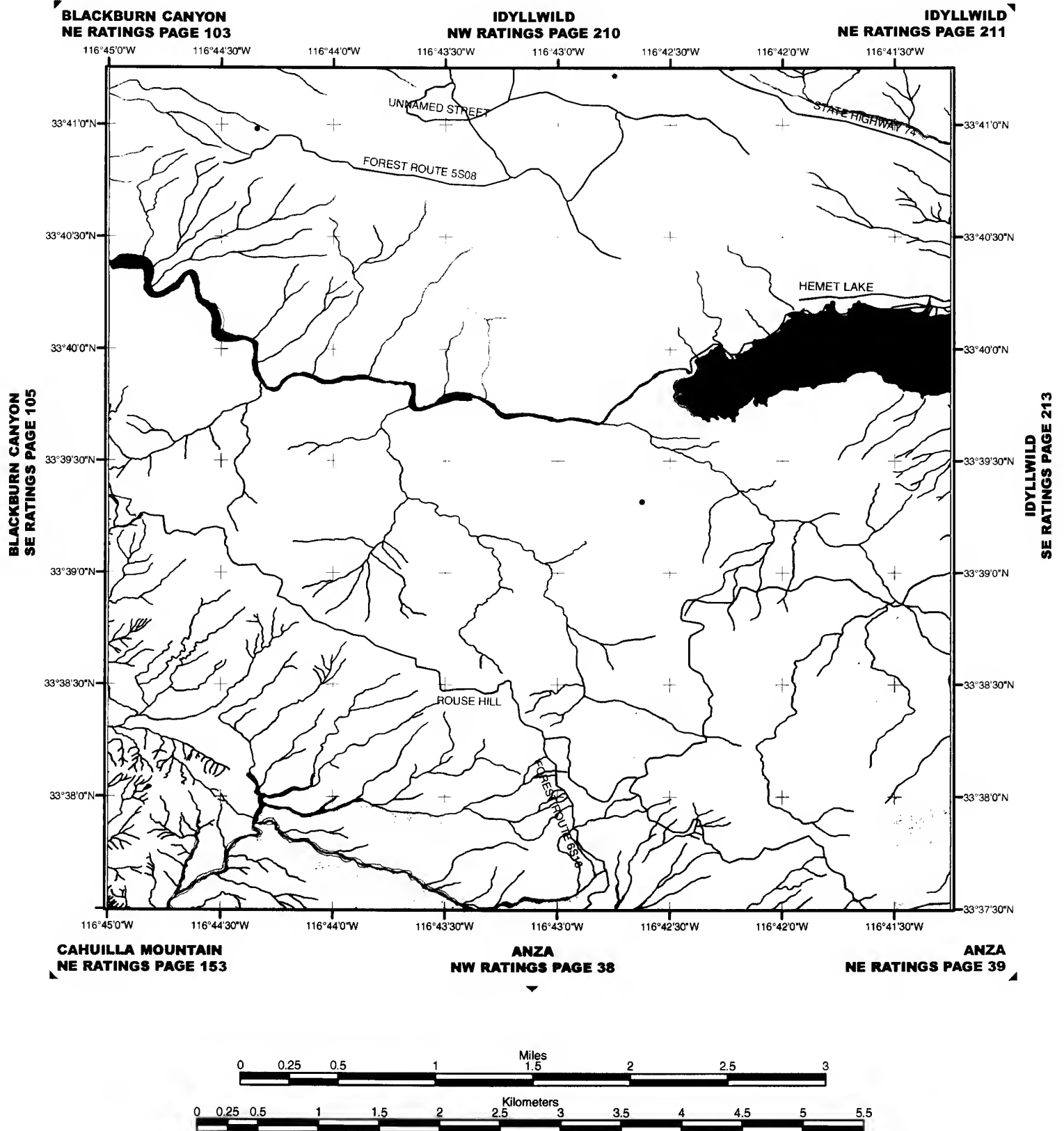


# Idyllwild North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

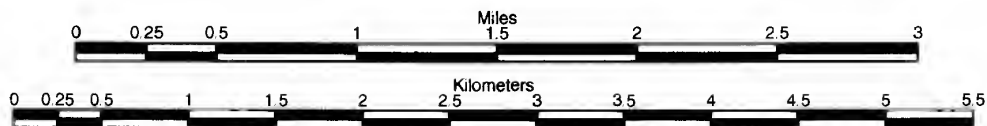
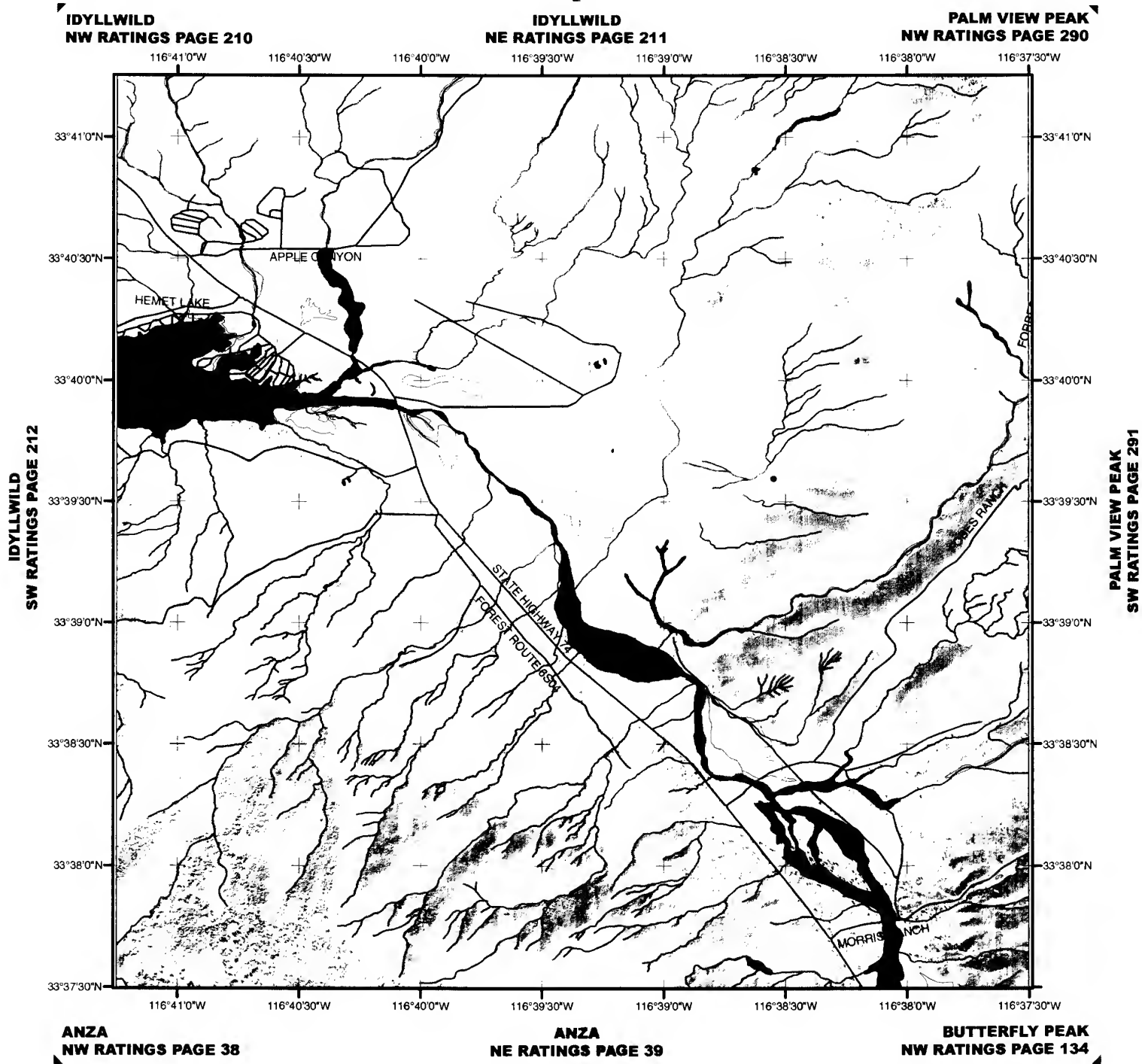




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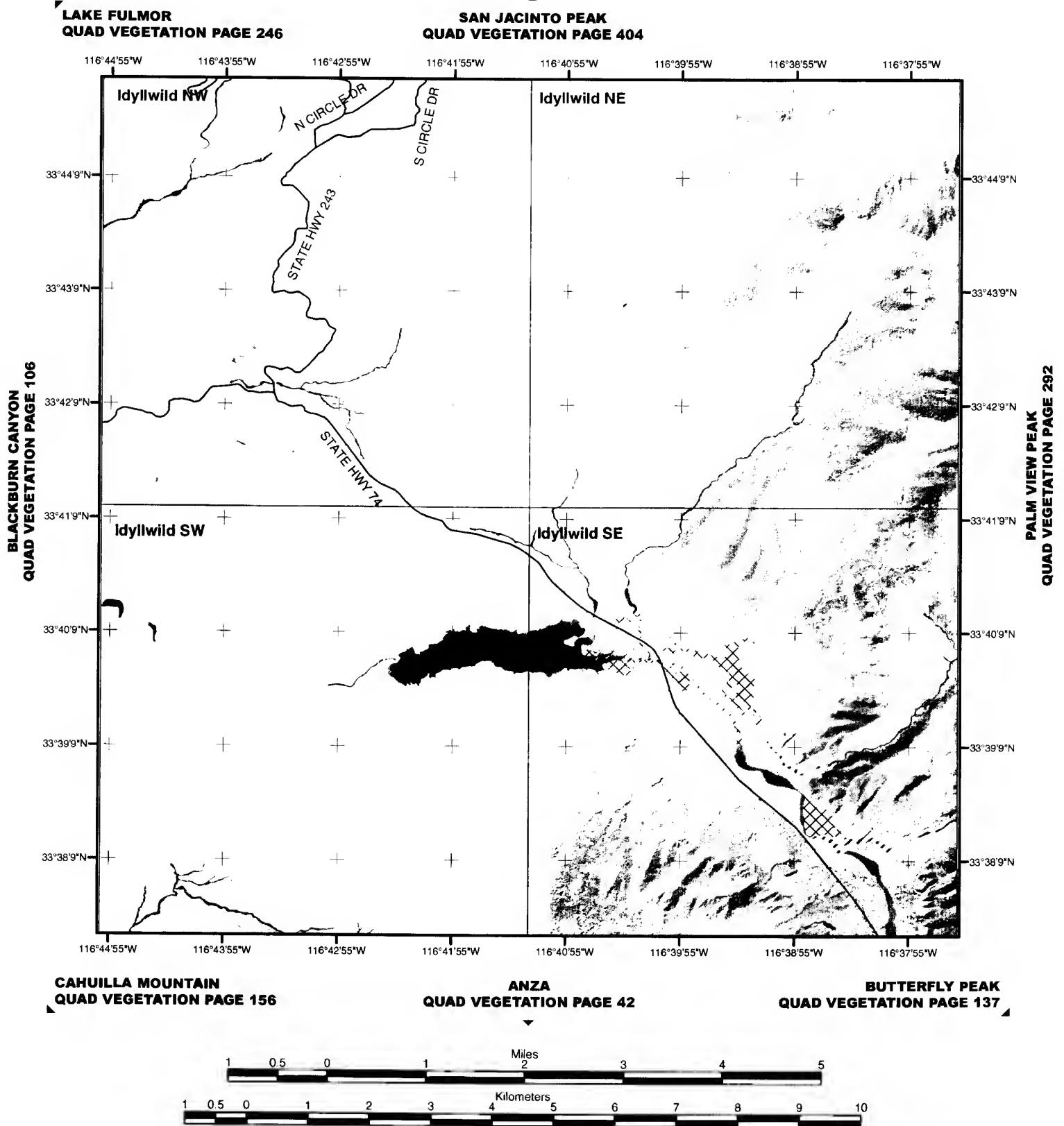


# Idyllwild South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



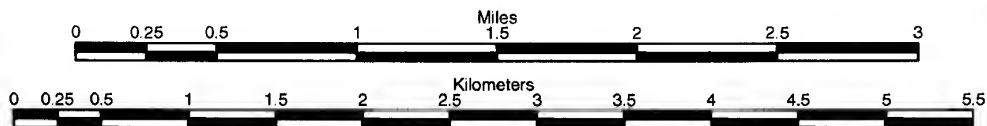
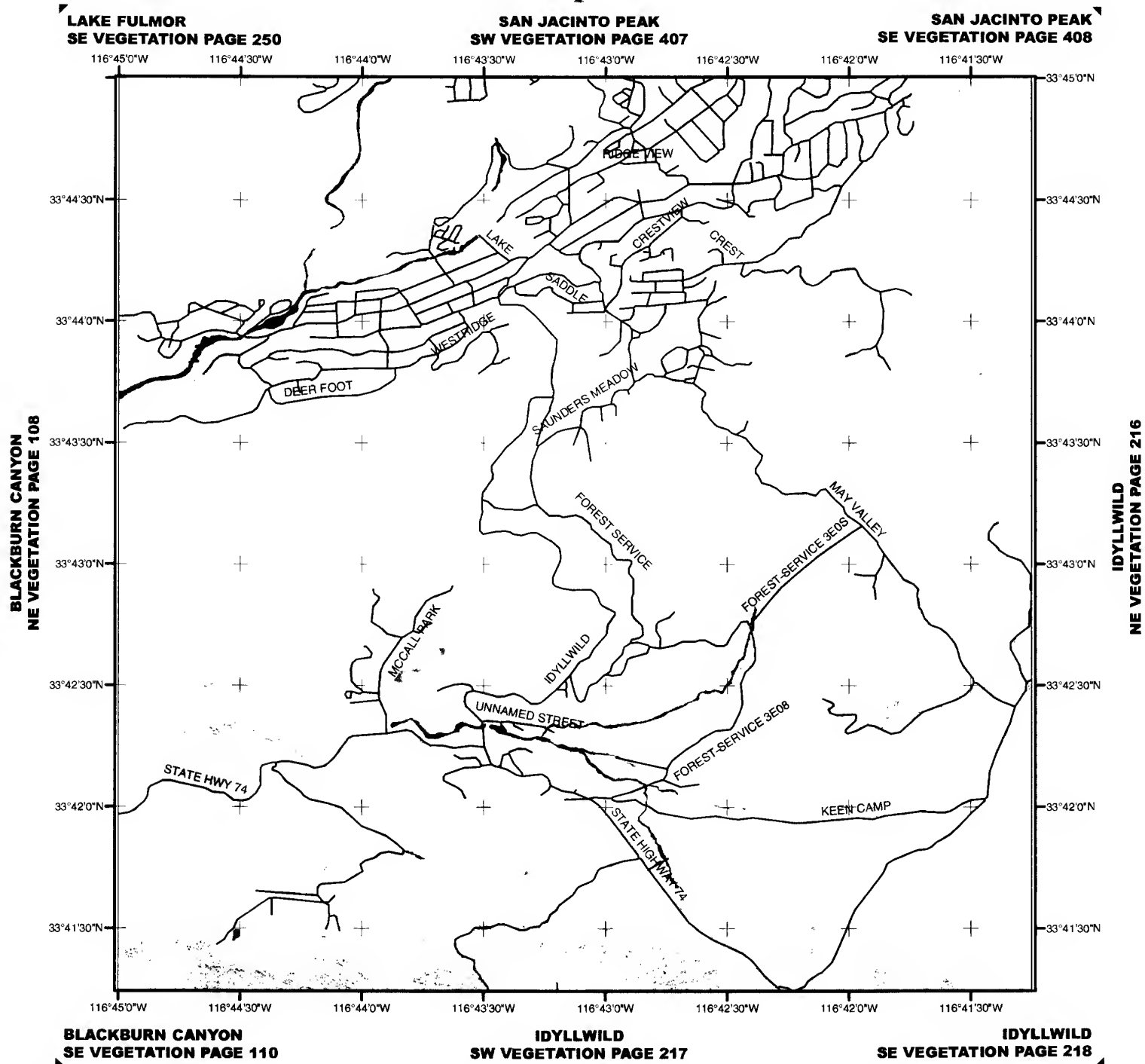
# Idyllwild Quadrangle

## Vegetation Species Association Units for Aquatic Resources

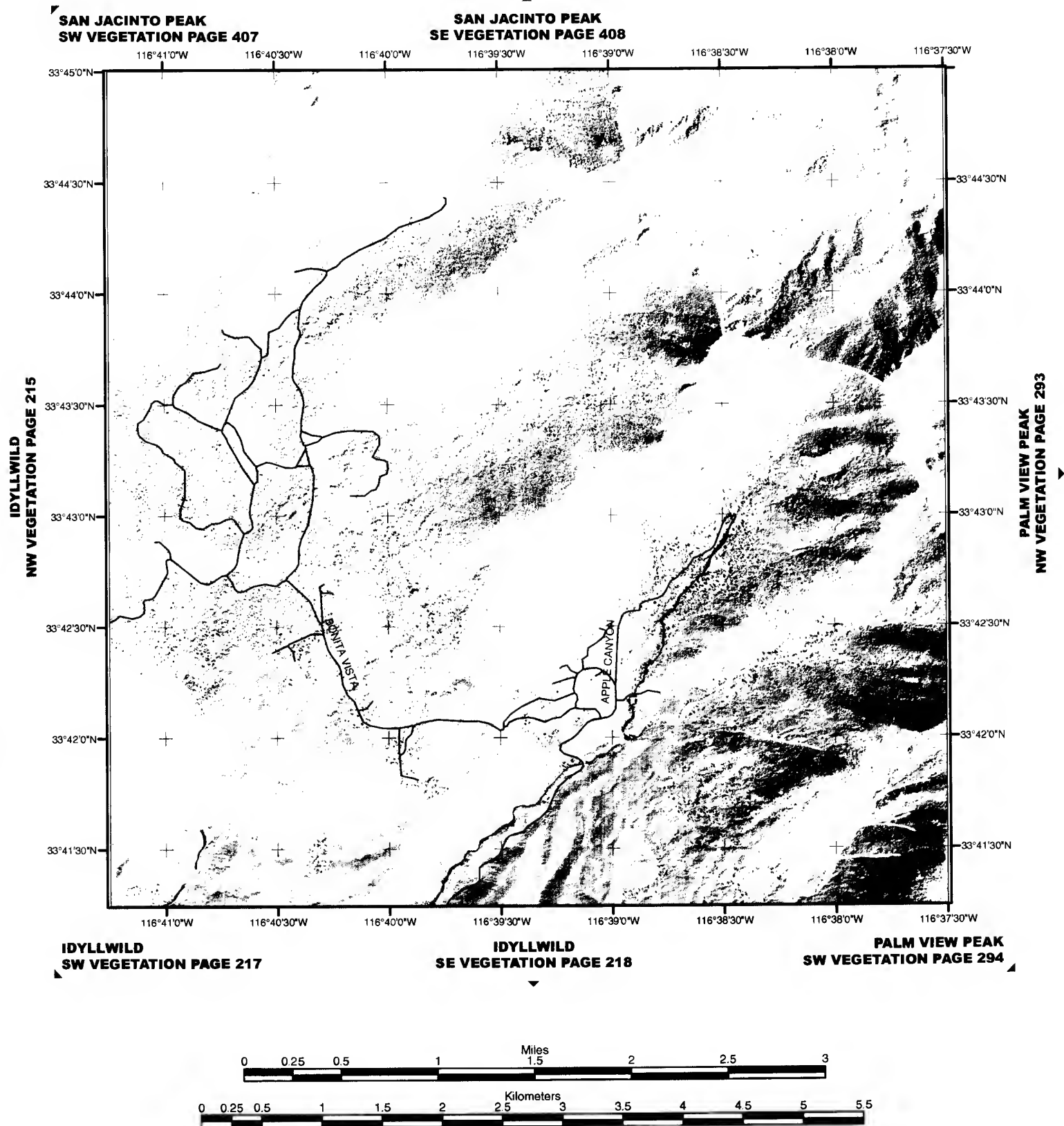


# Idyllwild North West Quarter-Quadrangle

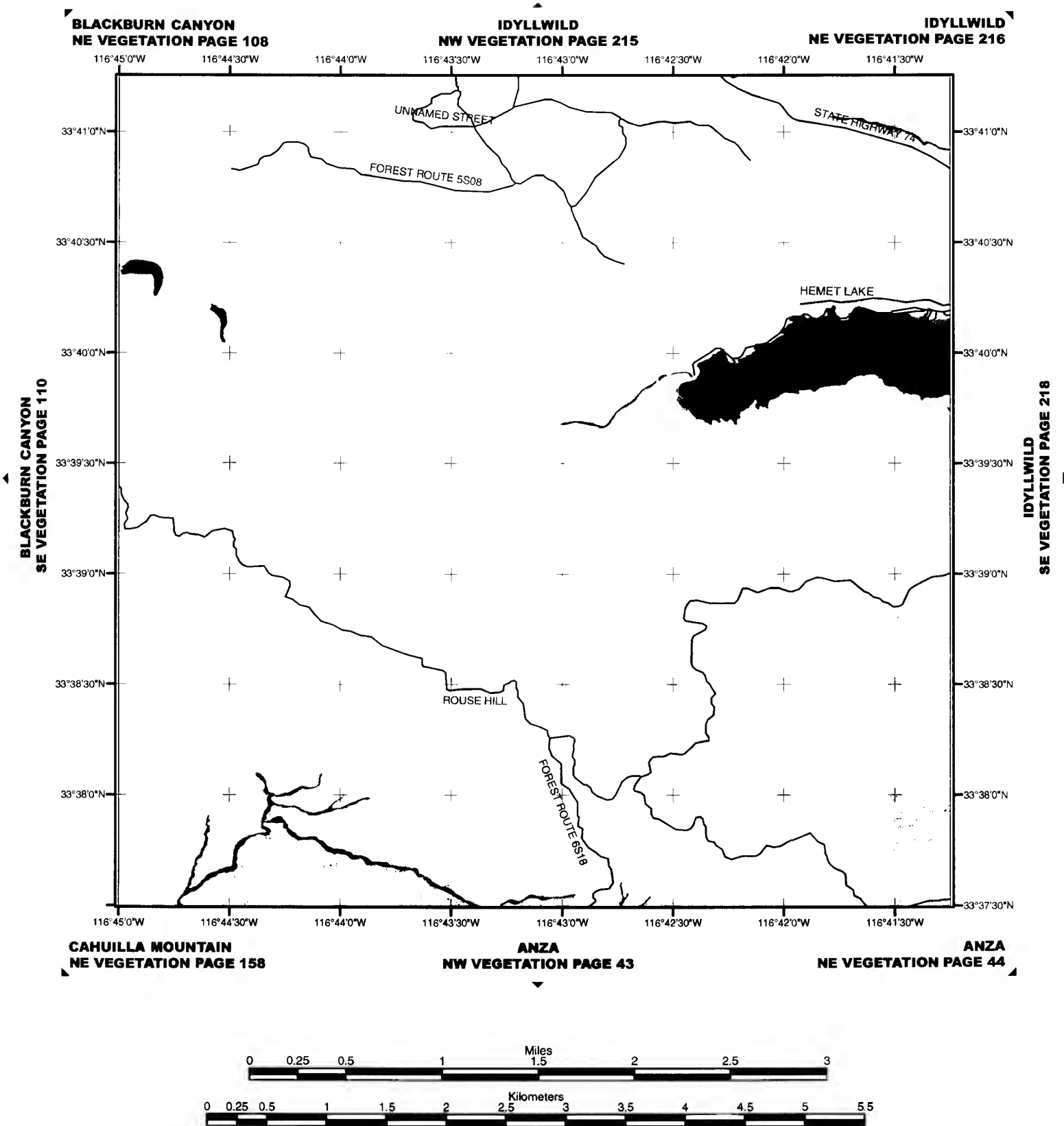
## Vegetation Species Association Units for Aquatic Resources



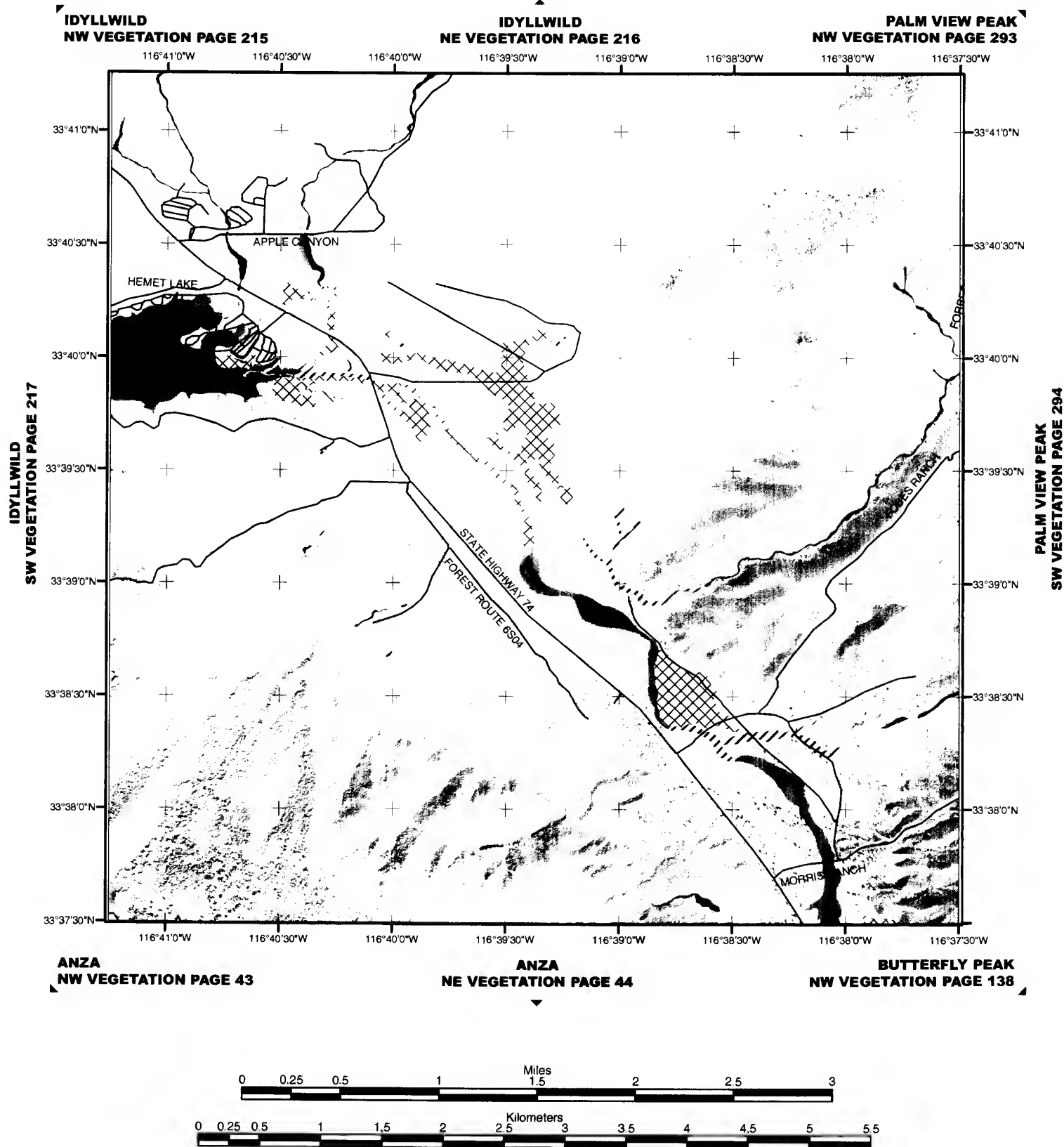
# Idyllwild North East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



# Idyllwild South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



# Idyllwild South East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

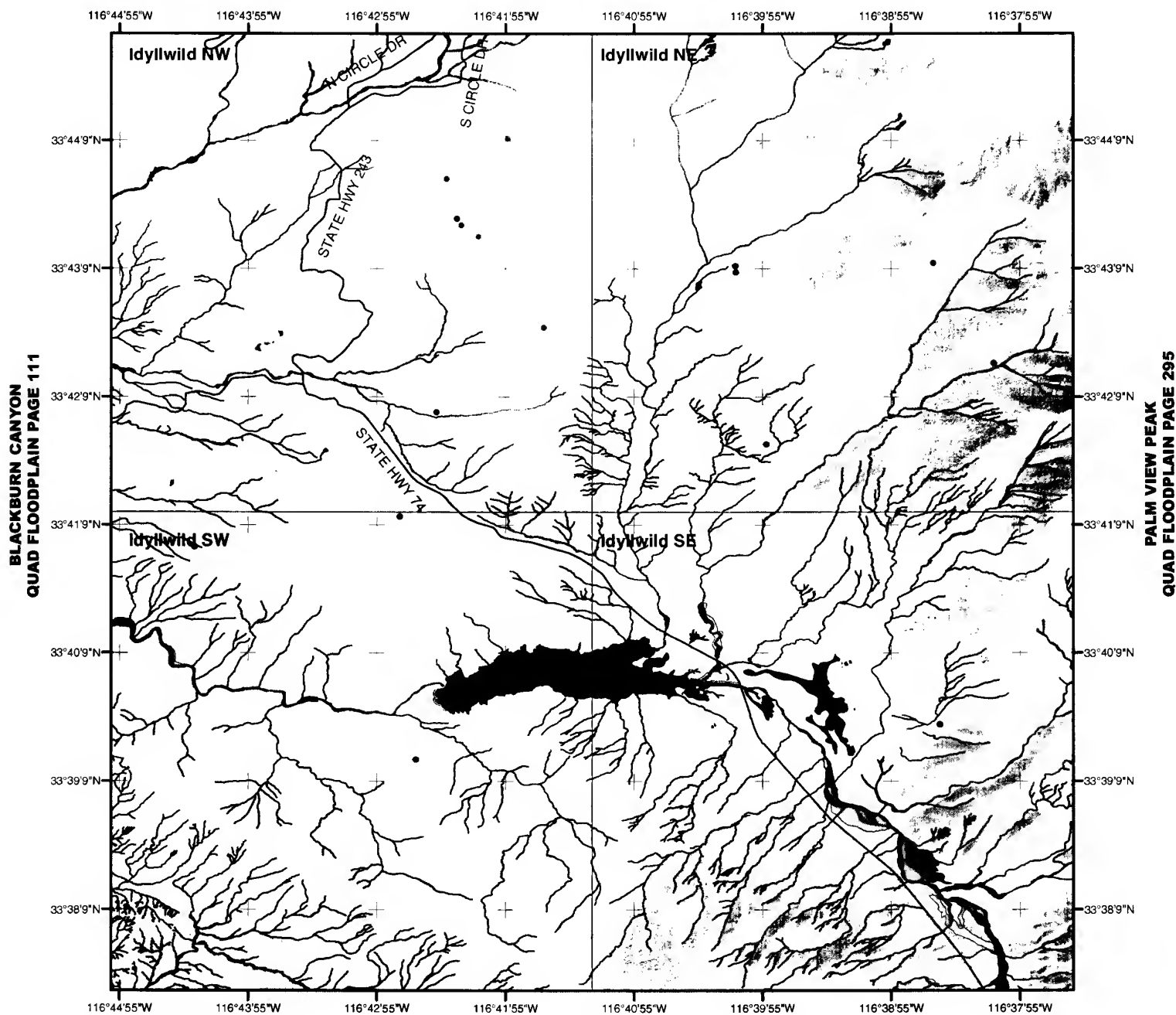


# Idyllwild Quadrangle

## Hydrogeomorphic Floodplain Units for Aquatic Resources

LAKE FULMOR  
QUAD FLOODPLAIN PAGE 251

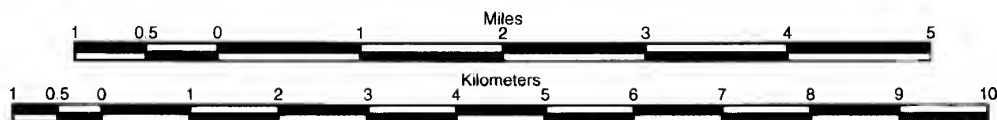
SAN JACINTO PEAK  
QUAD FLOODPLAIN PAGE 409



CAHUILLA MOUNTAIN  
QUAD FLOODPLAIN PAGE 161

ANZA  
QUAD FLOODPLAIN PAGE 47

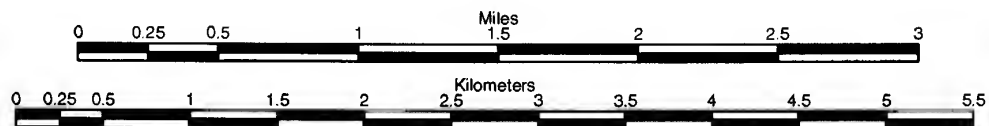
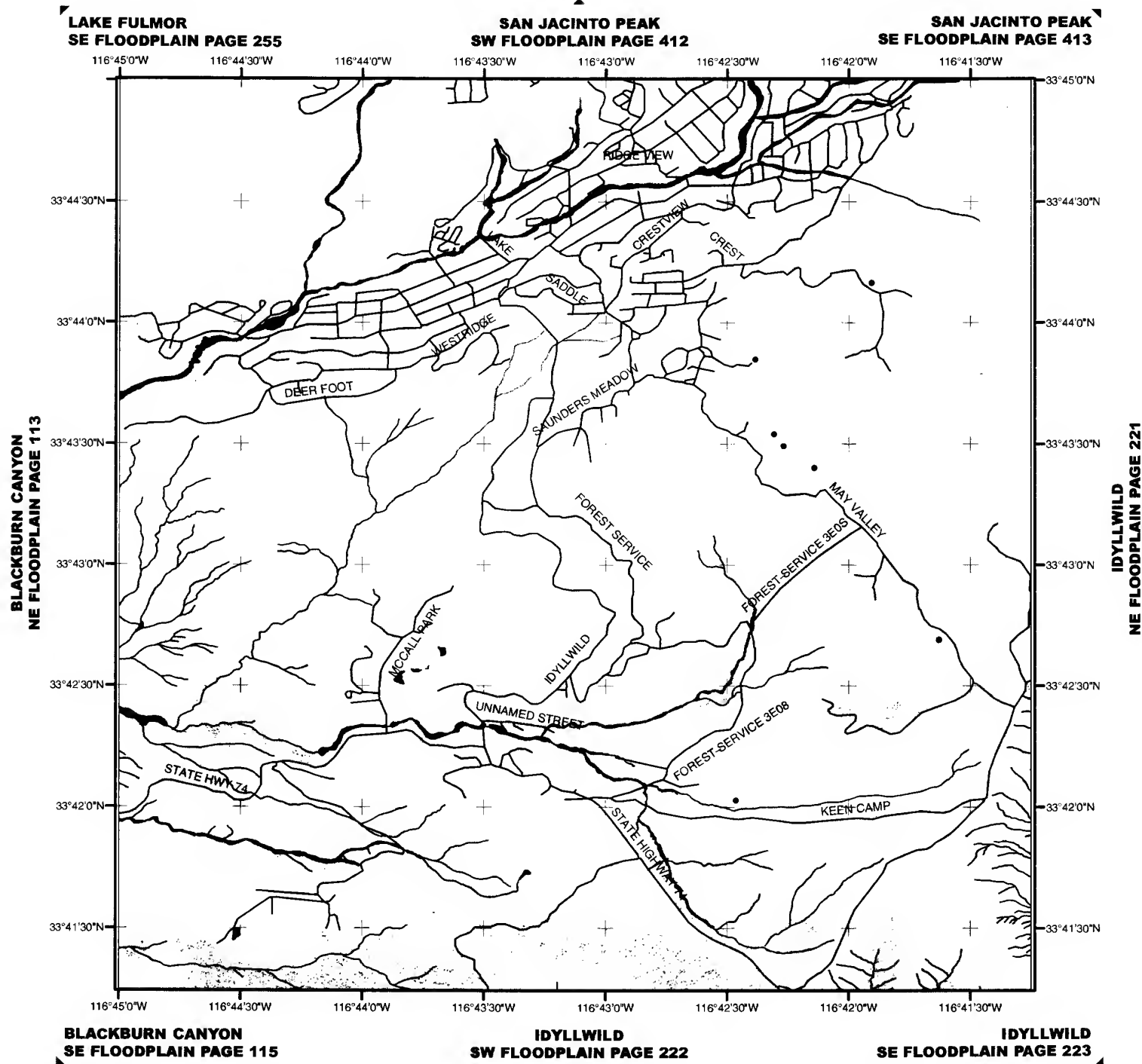
BUTTERFLY PEAK  
QUAD FLOODPLAIN PAGE 141



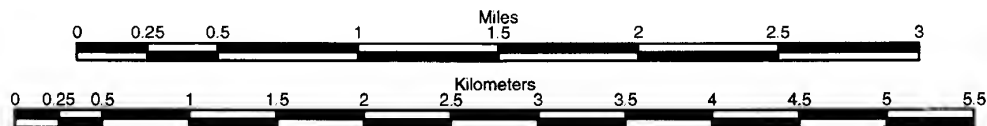
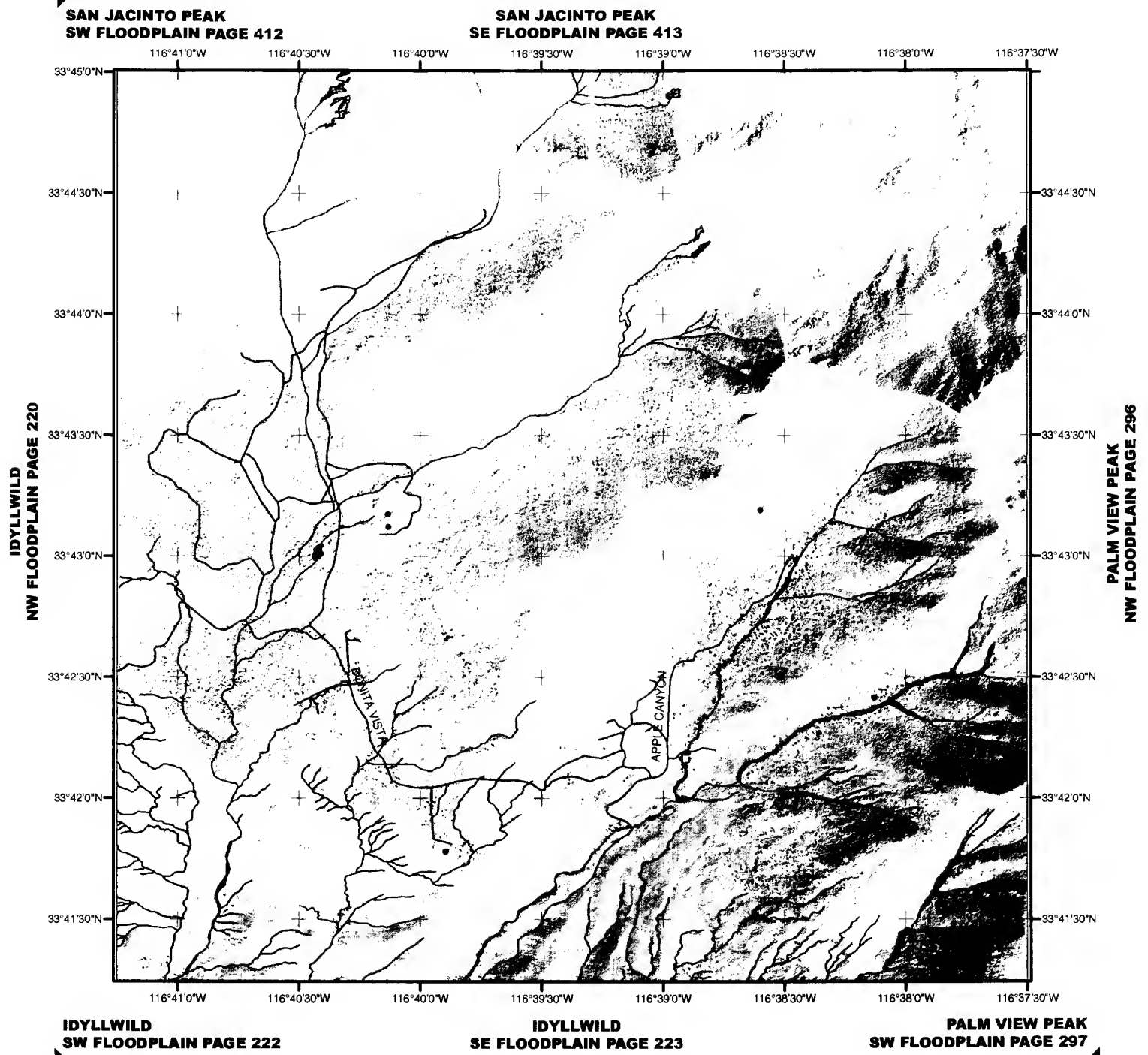


# Idyllwild North West Quarter-Quadrangle

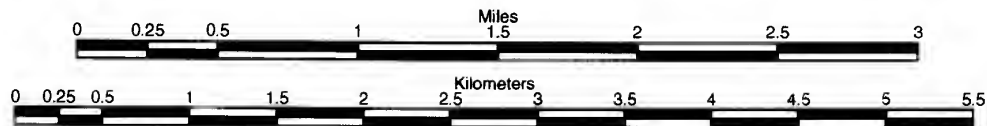
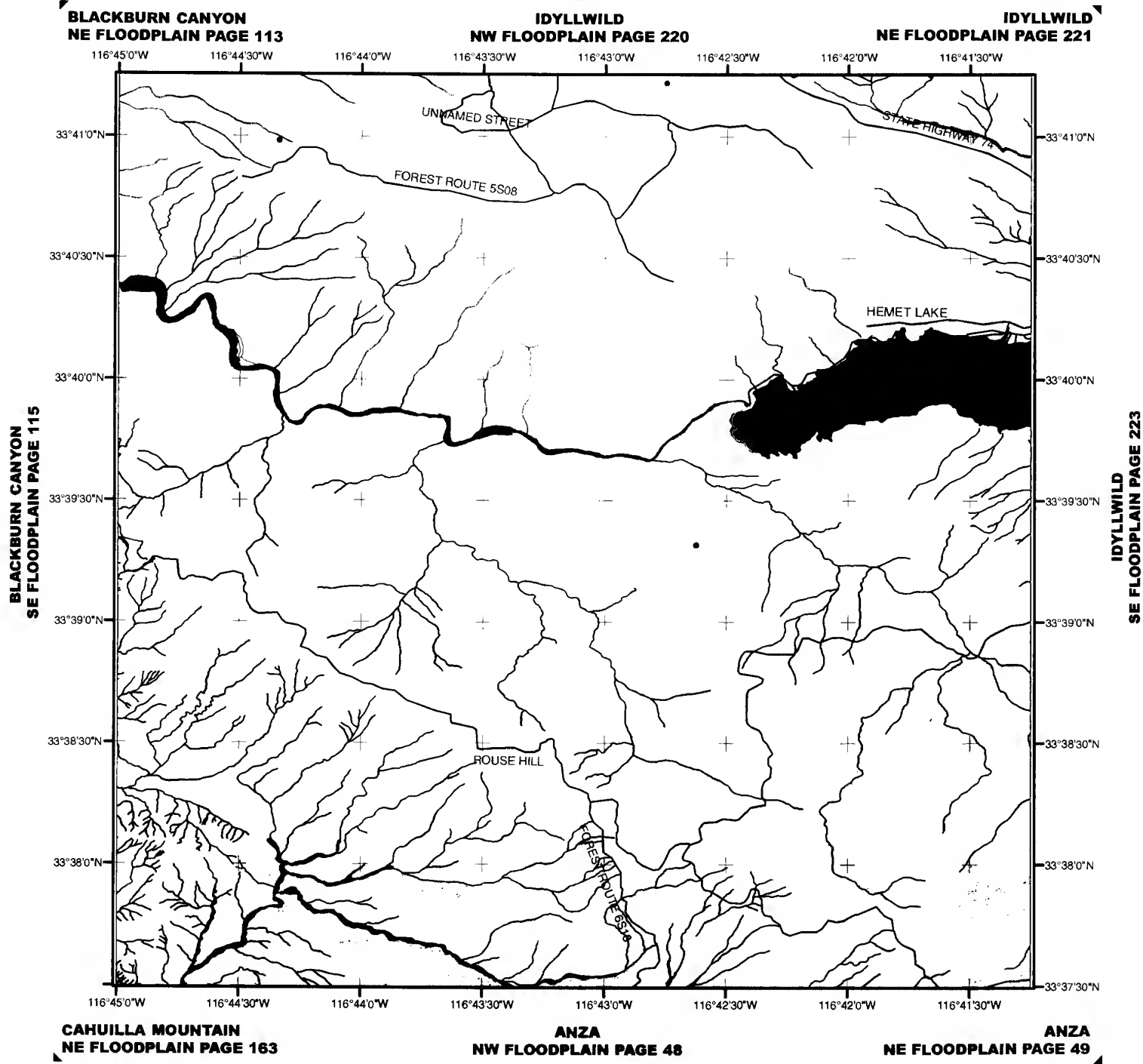
## Hydrogeomorphic Floodplain Units for Aquatic Resources



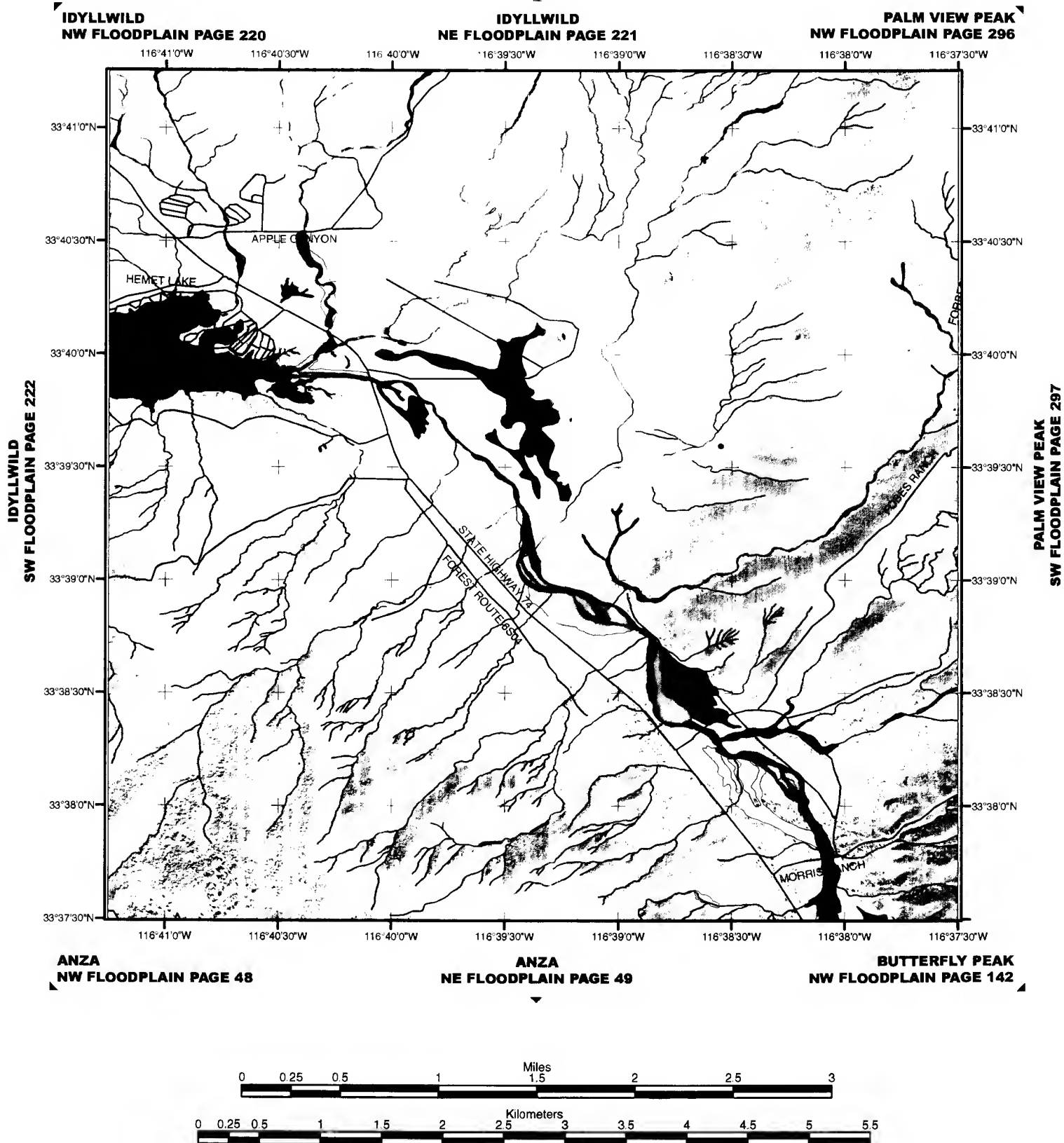
# Idyllwild North East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



# Idyllwild South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



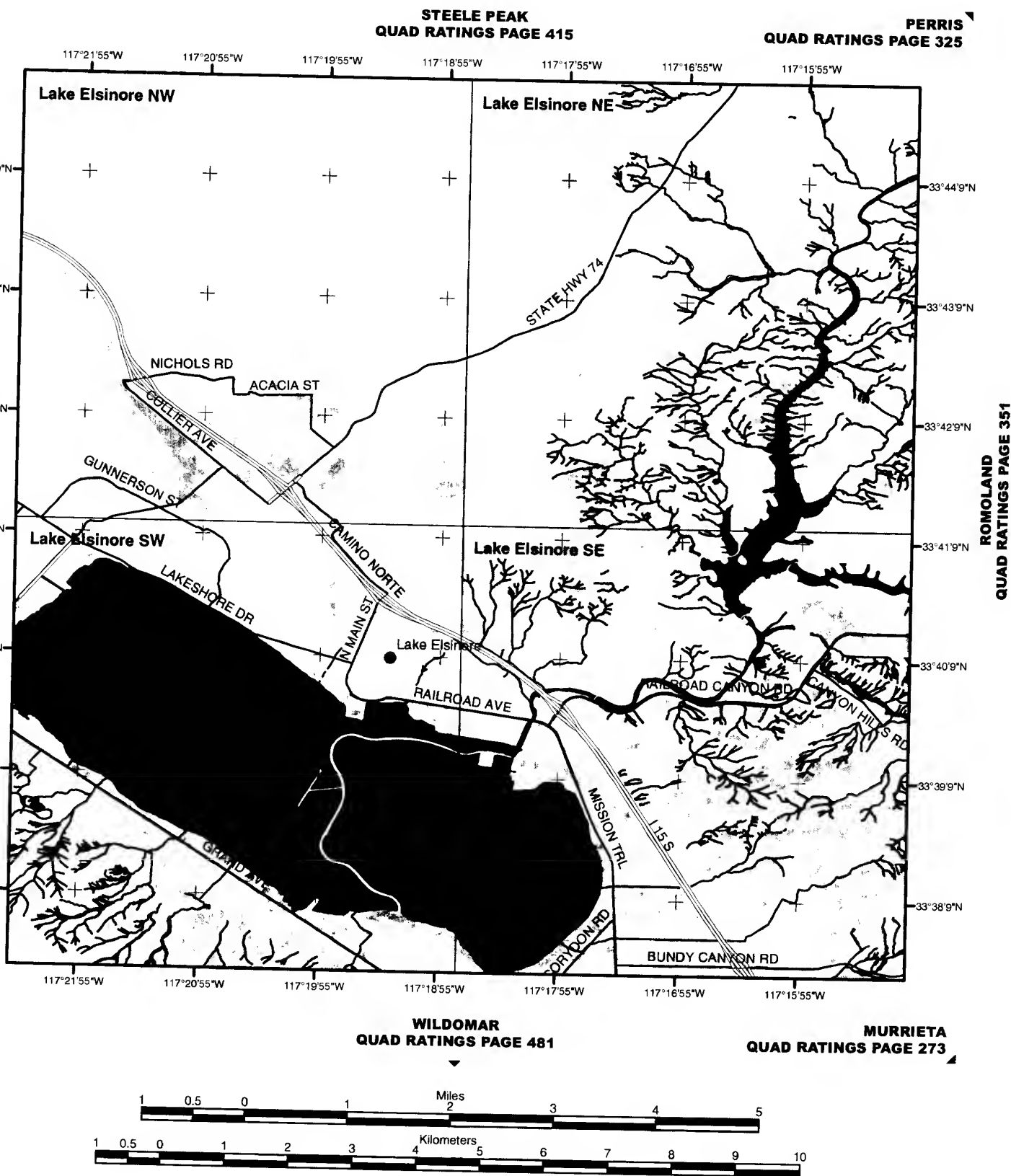
# Idyllwild South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



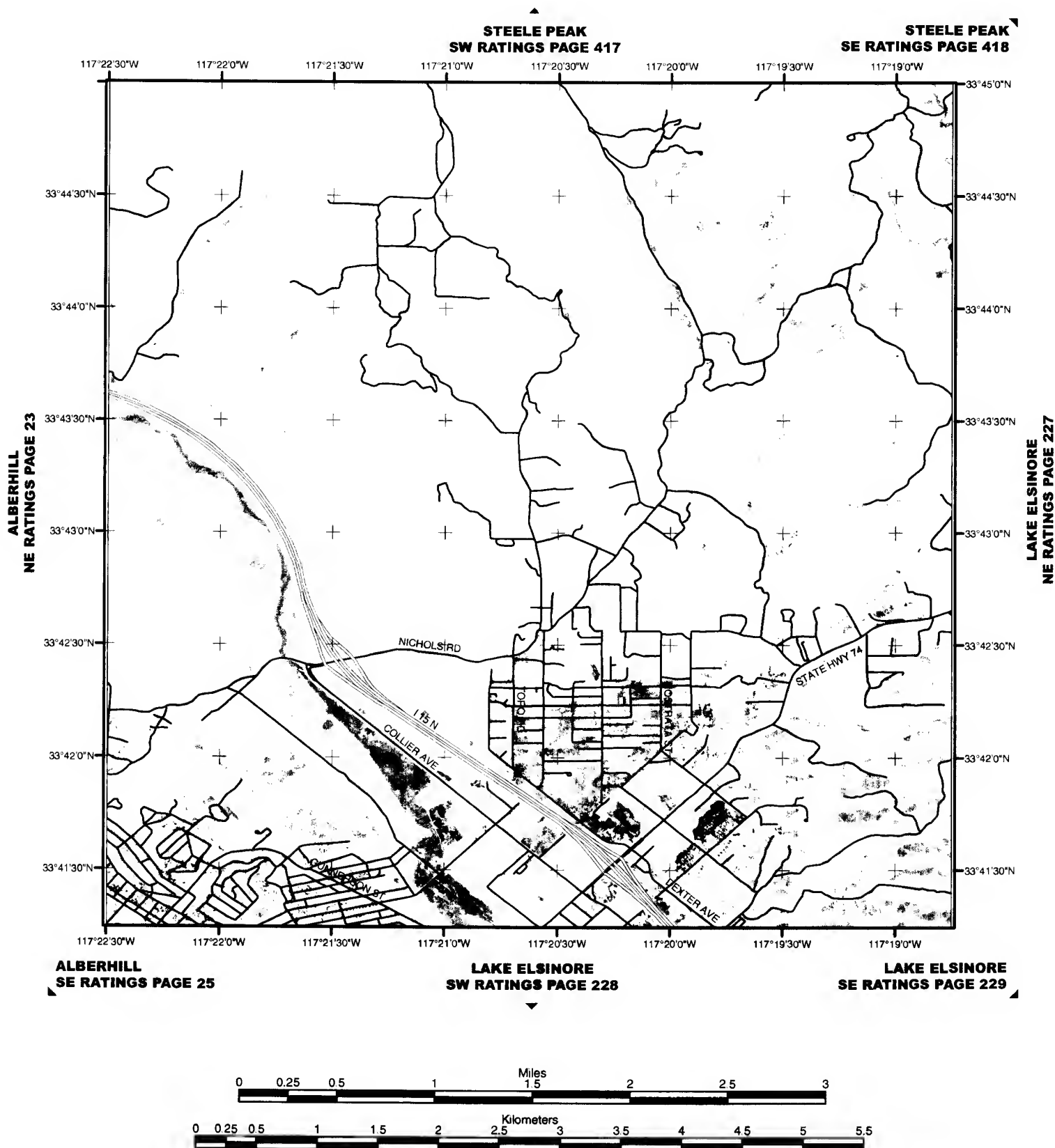


# Lake Elsinore Quadrangle

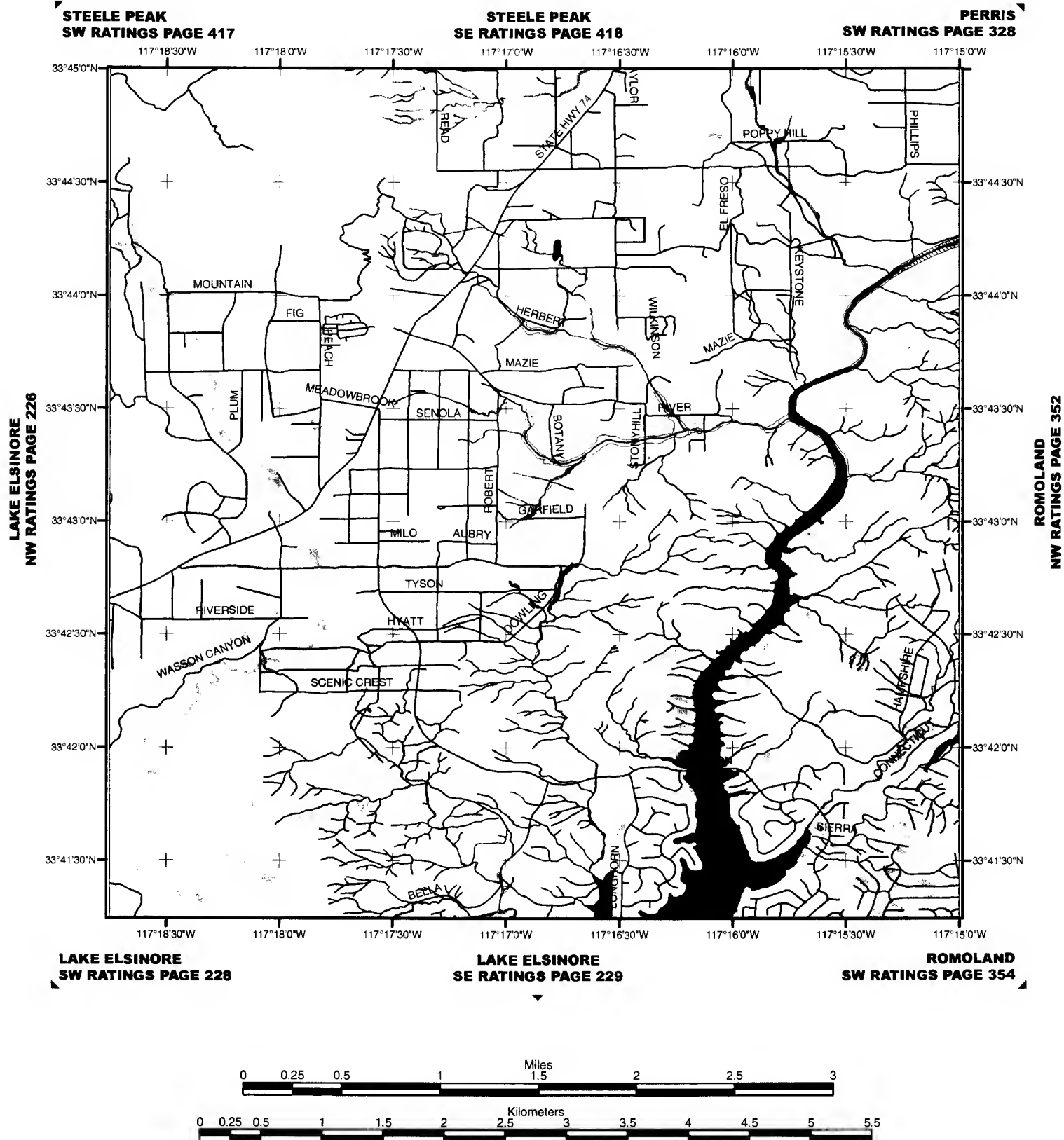
## Regulatory Probability Ratings for Aquatic Resources



# Lake Elsinore North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

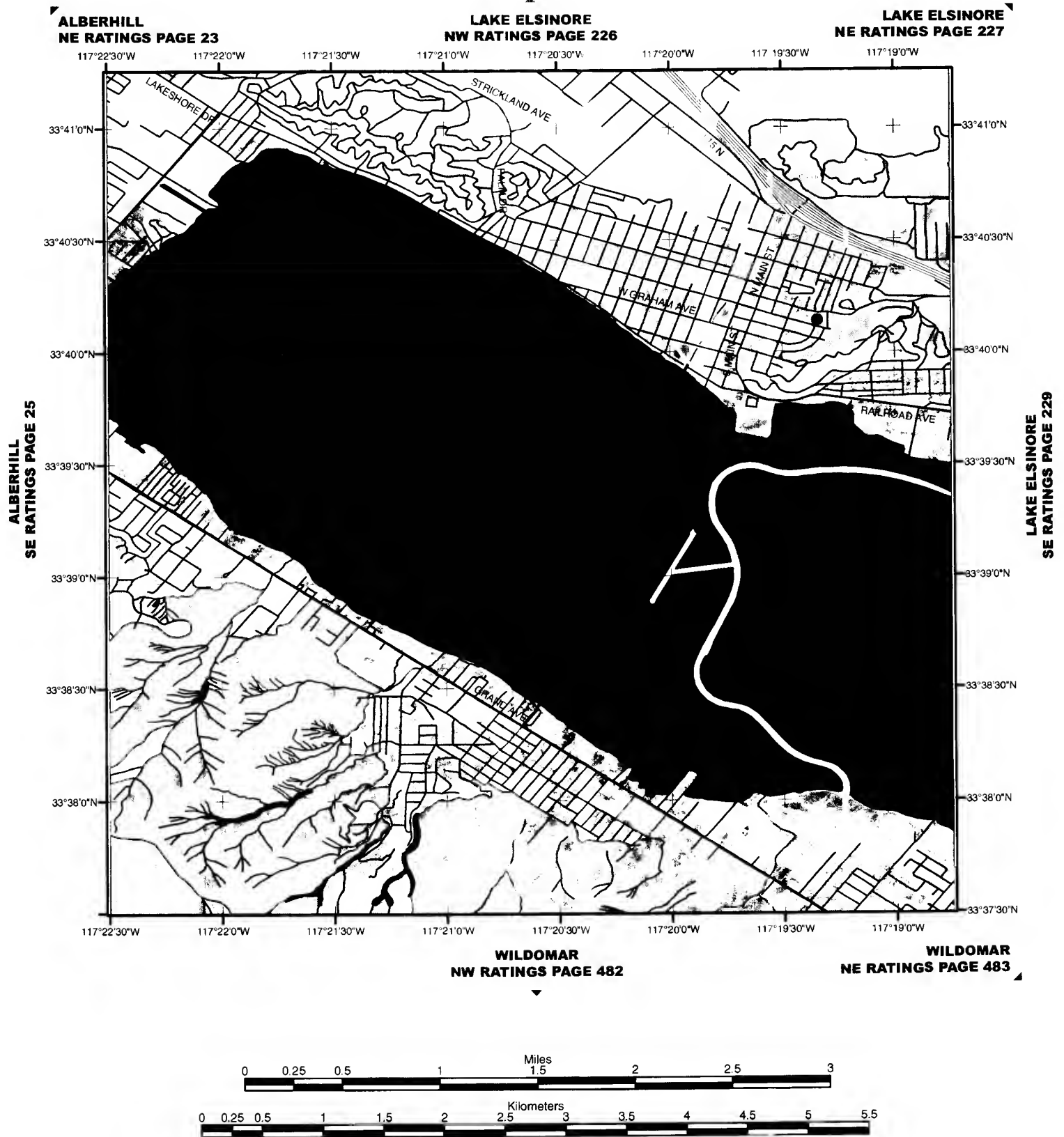


# Lake Elsinore North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

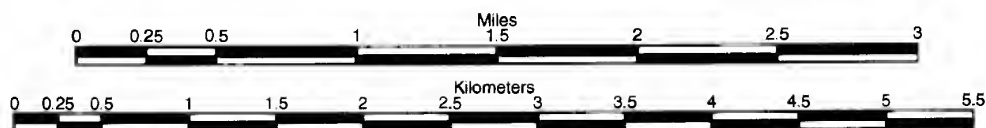
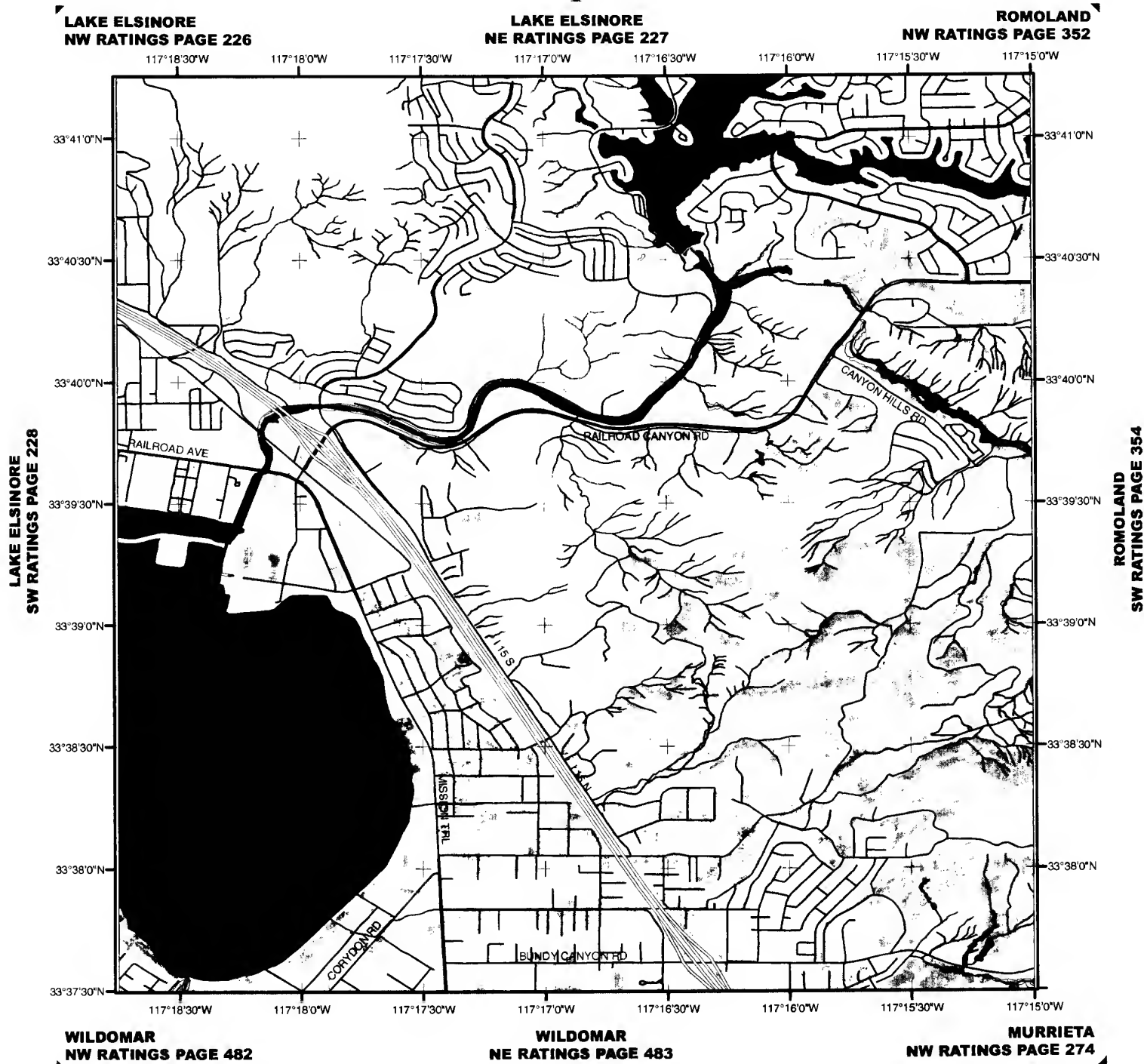




# Lake Elsinore South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

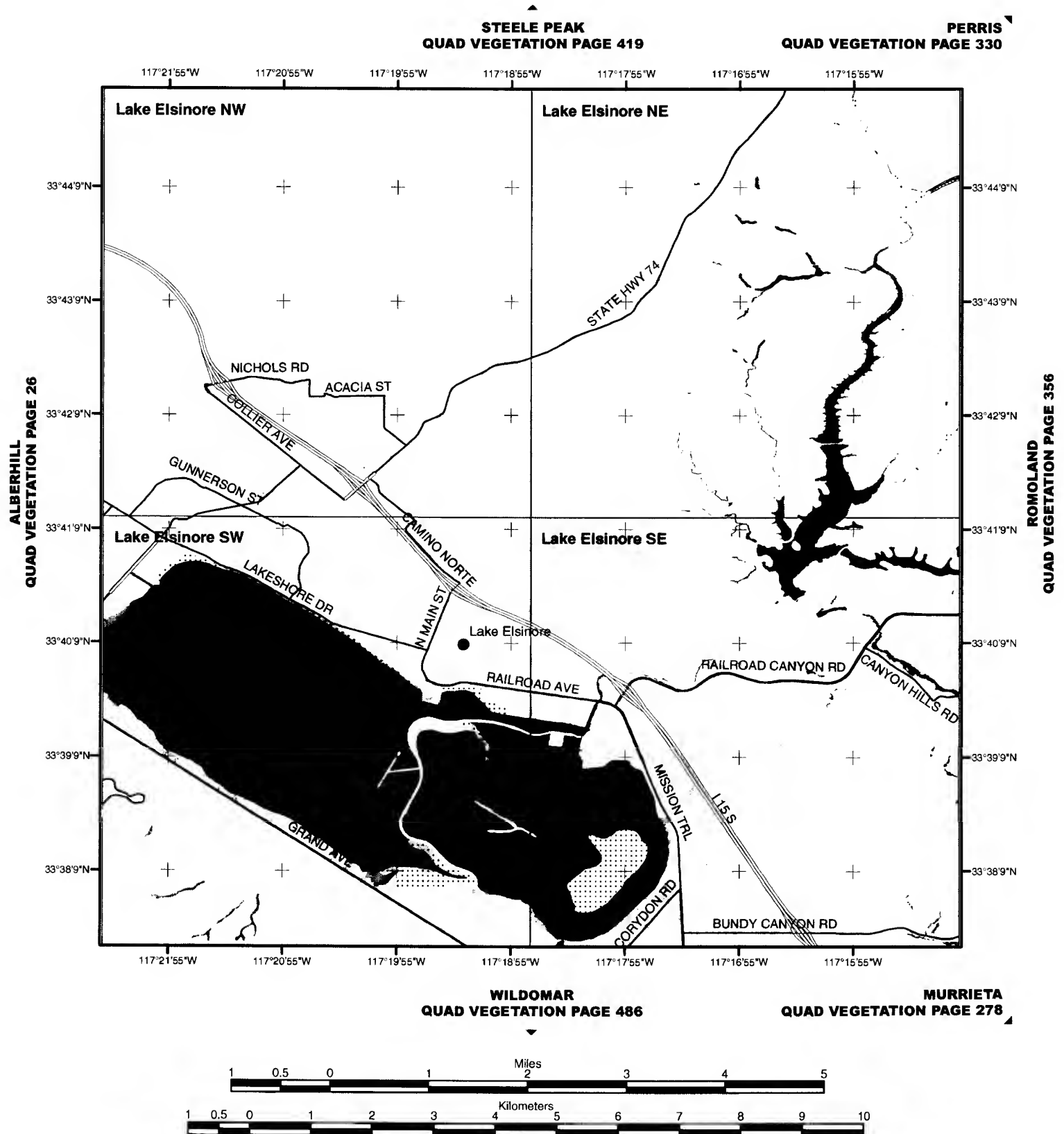


# Lake Elsinore South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

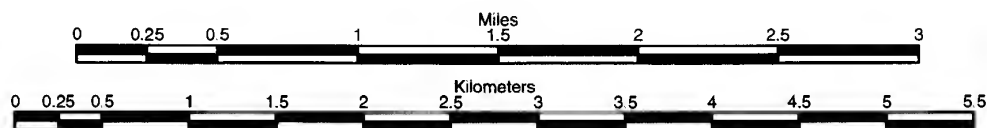
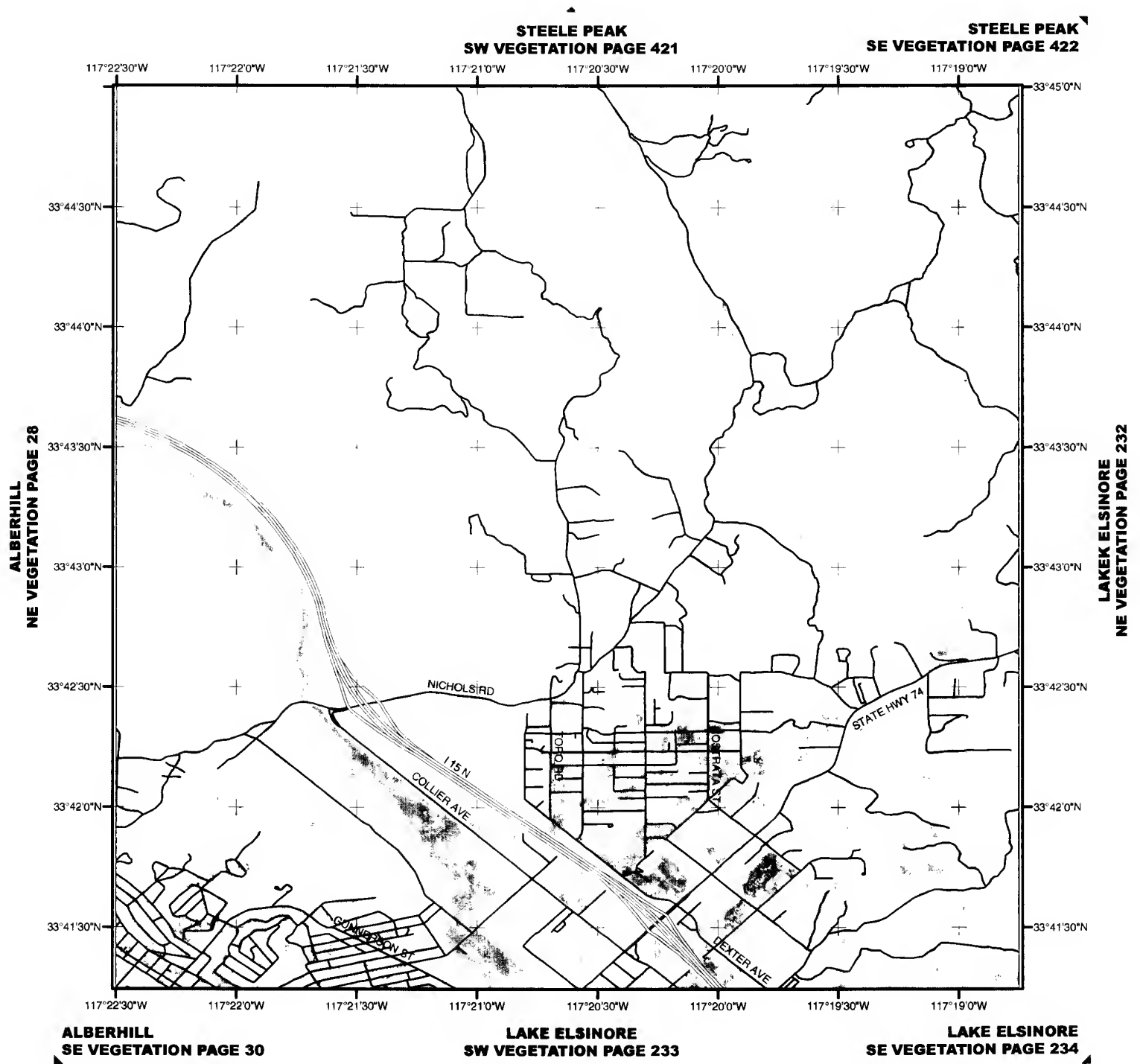


# Lake Elsinore Quadrangle

## Vegetation Species Association Units for Aquatic Resources

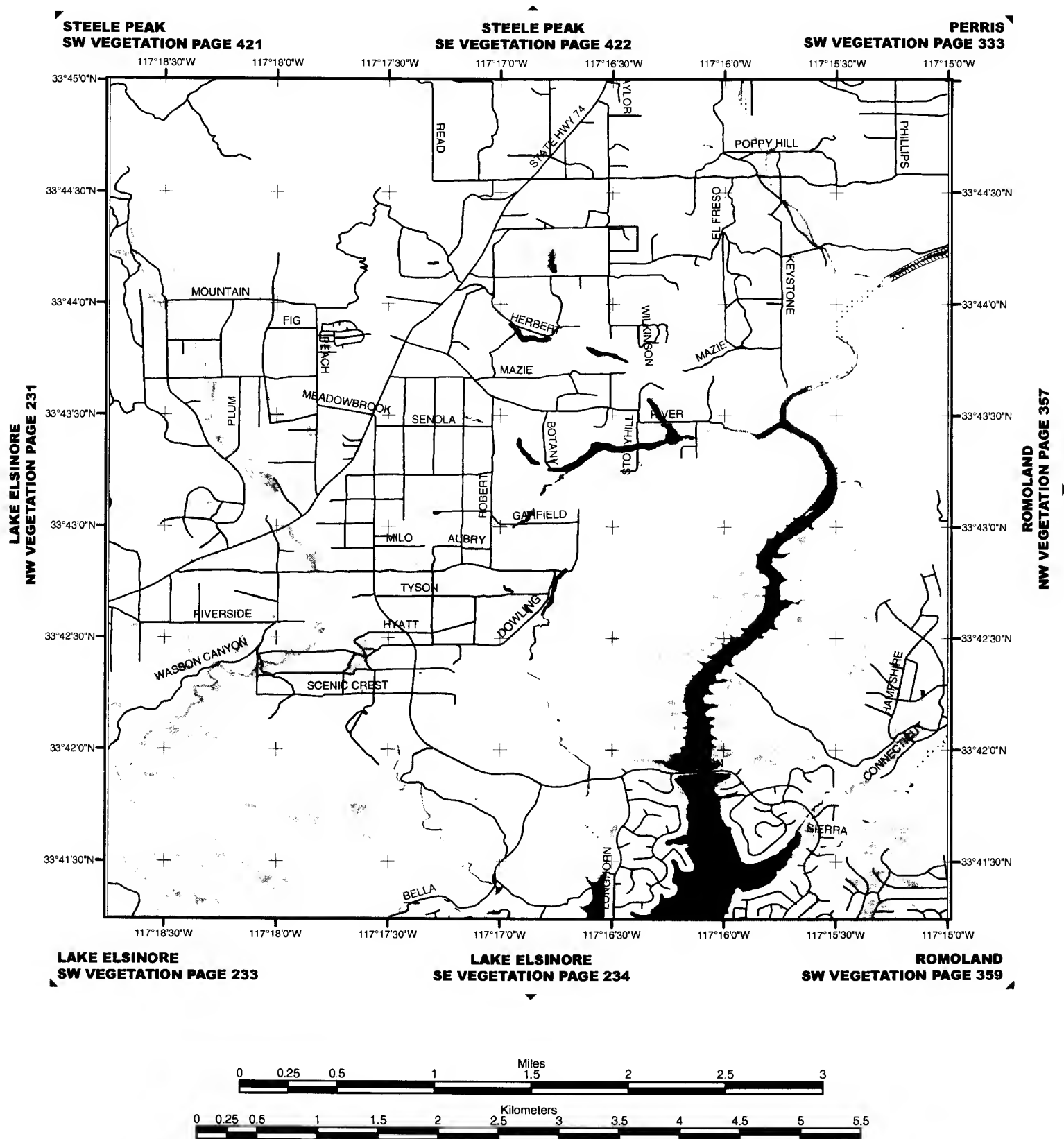


# Lake Elsinore North West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

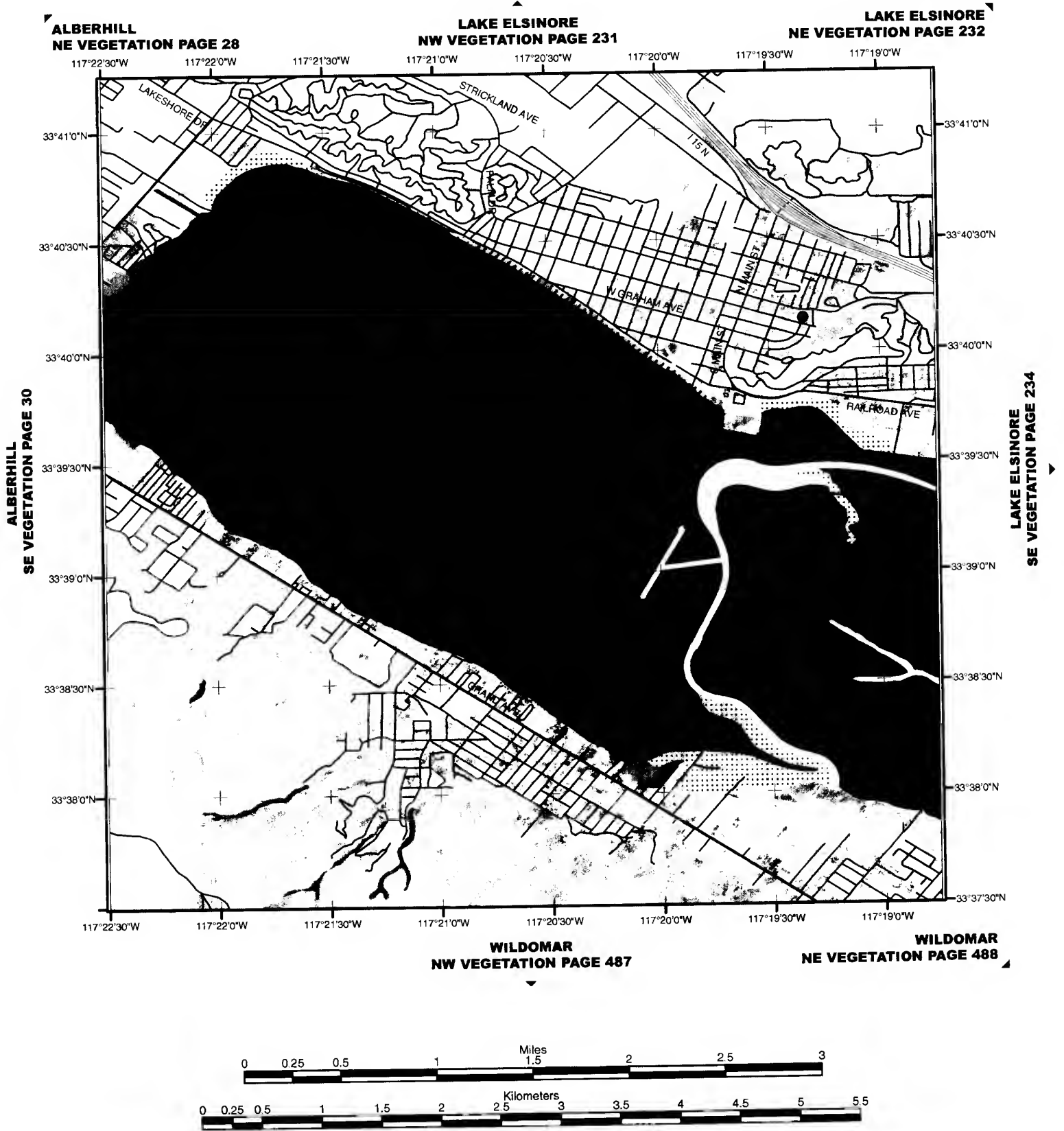


# Lake Elsinore North East Quarter-Quadrangle

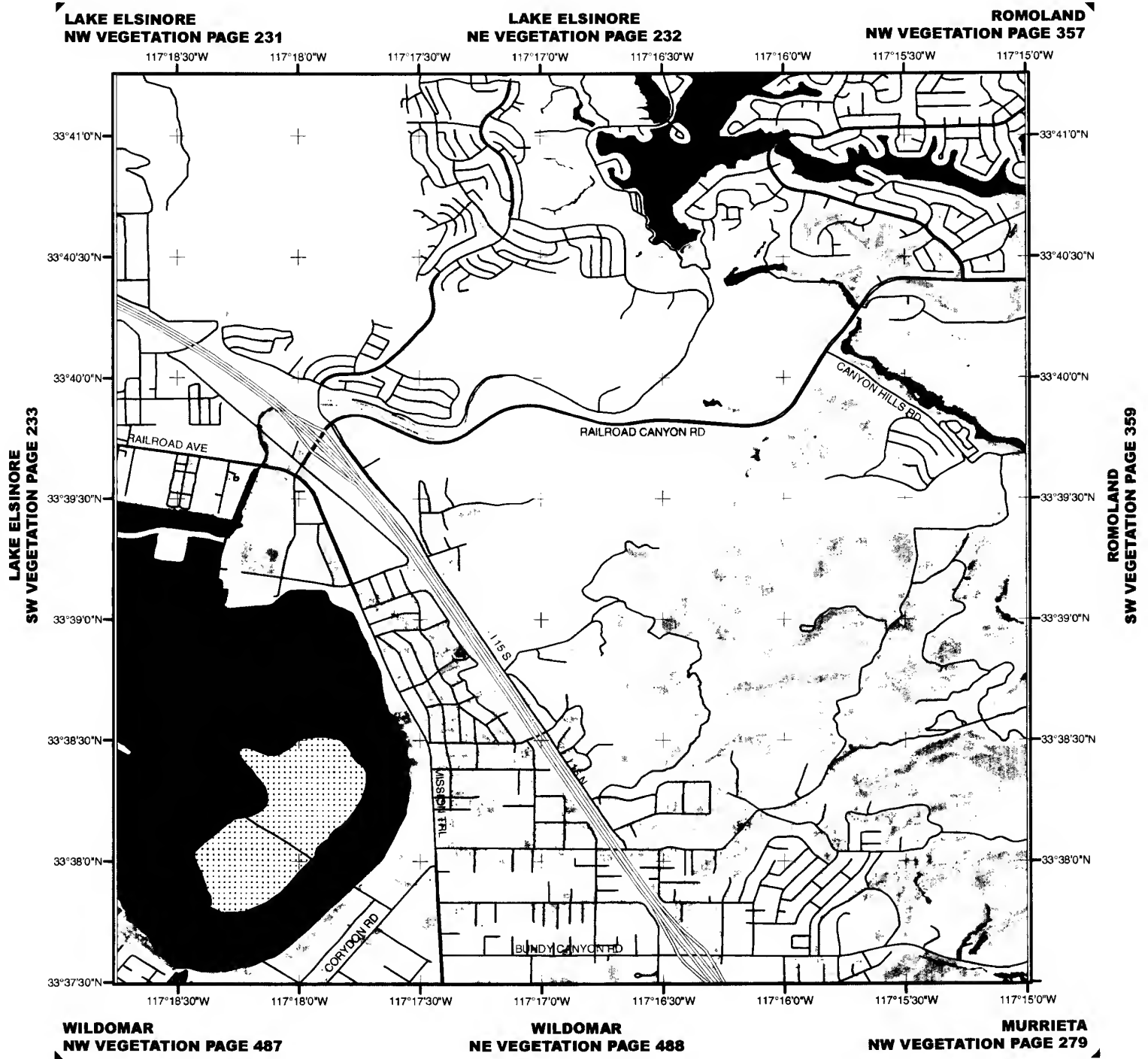
## Vegetation Species Association Units for Aquatic Resources



# Lake Elsinore South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



# Lake Elsinore South East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



# Lake Elsinore Quadrangle

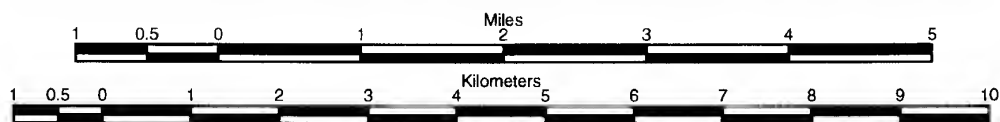
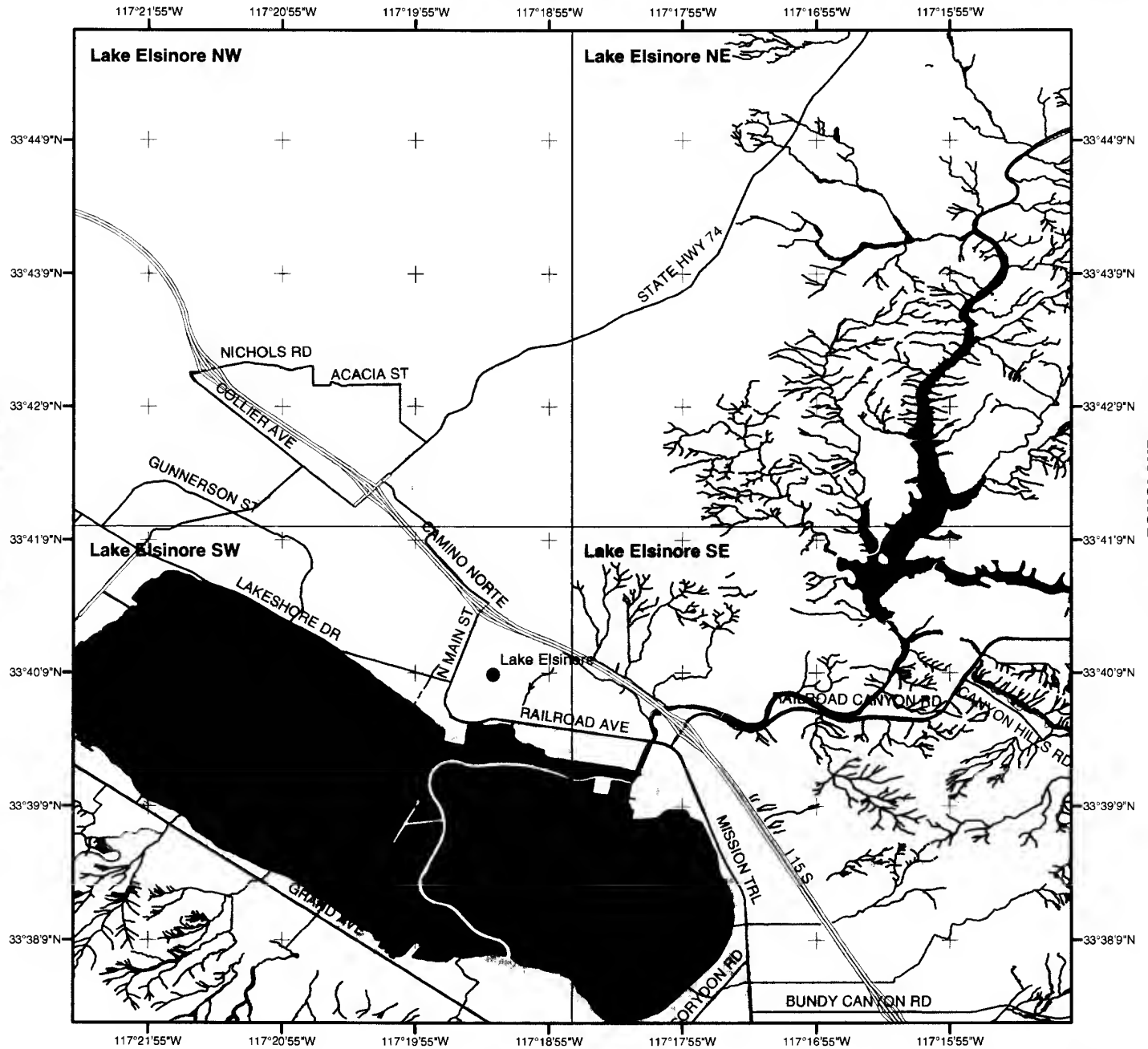
## Hydrogeomorphic Floodplain Units for Aquatic Resources

STEELE PEAK  
QUAD FLOODPLAIN PAGE 423

PERRIS  
QUAD FLOODPLAIN PAGE 335

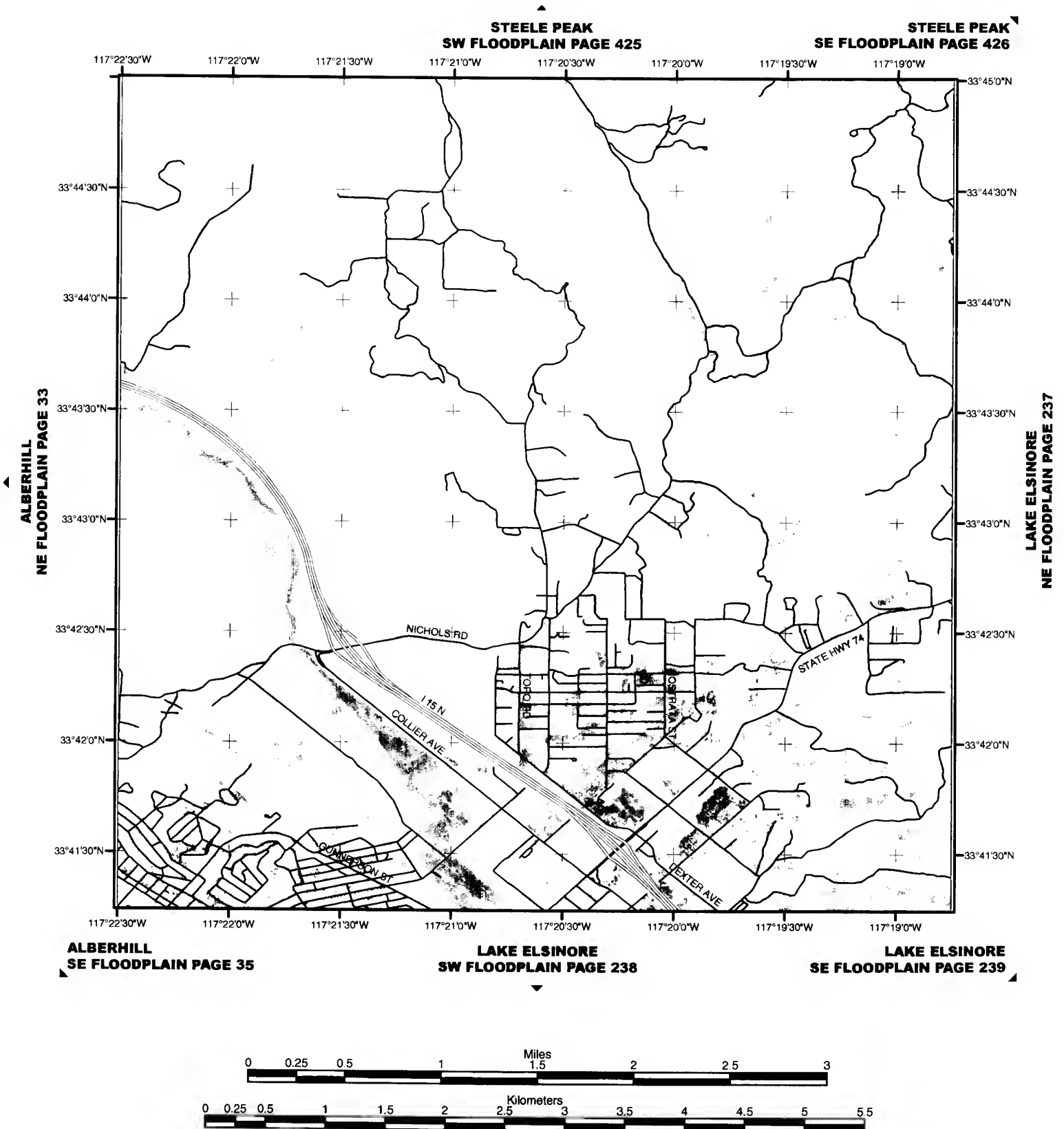
ALBERHILL  
QUAD FLOODPLAIN PAGE 31

ROMOLAND  
QUAD FLOODPLAIN PAGE 361

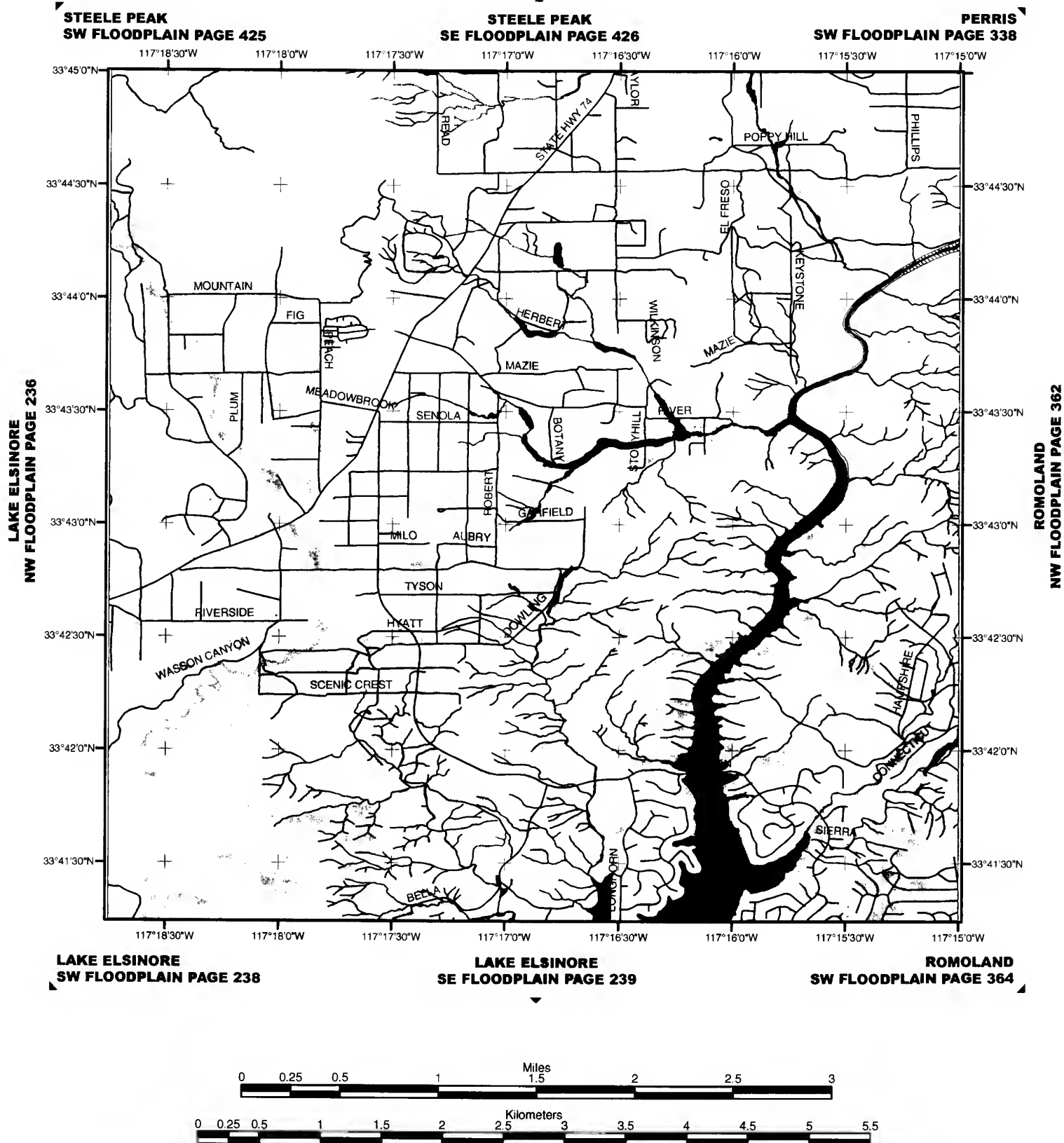




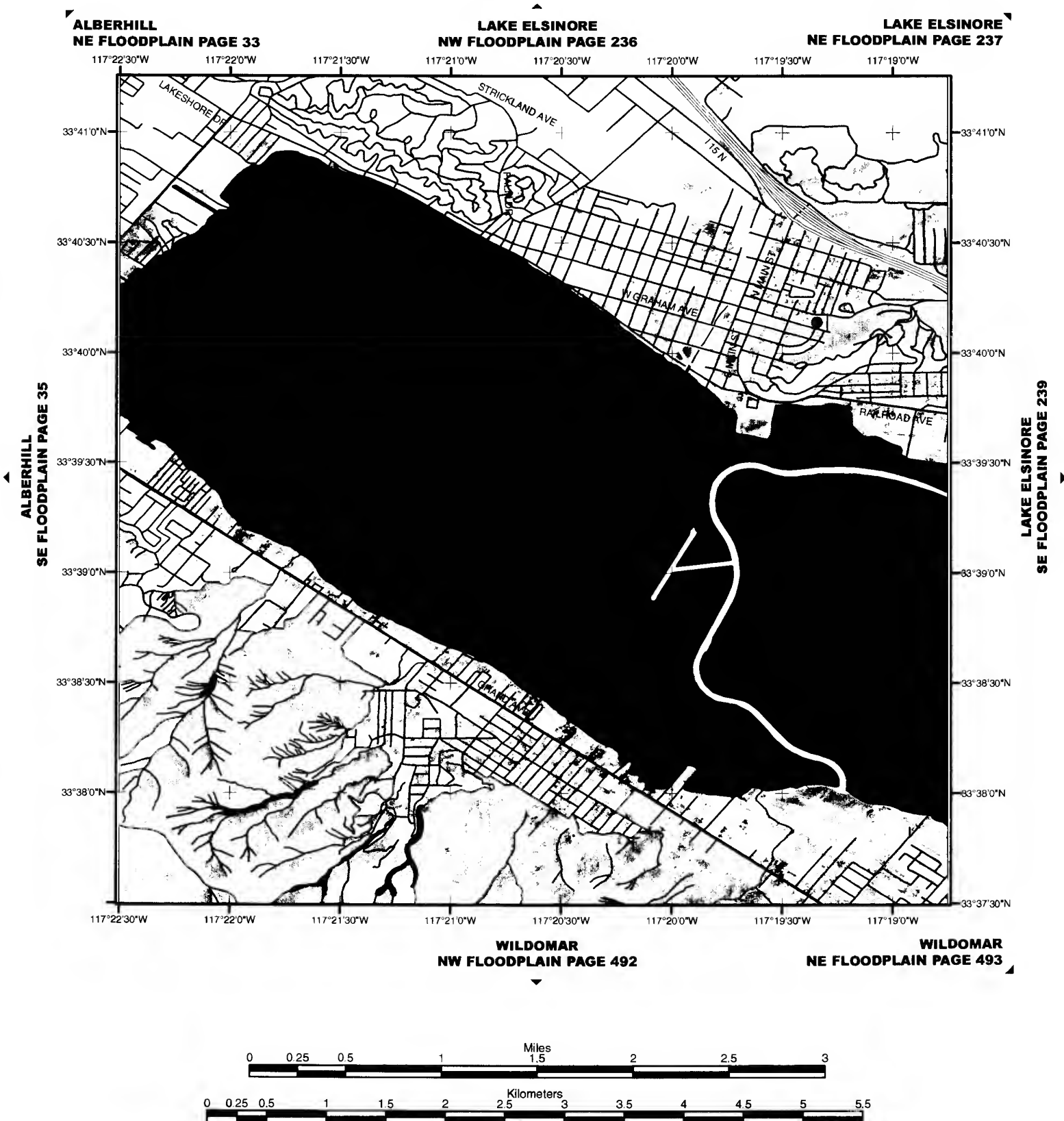
# Lake Elsinore North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



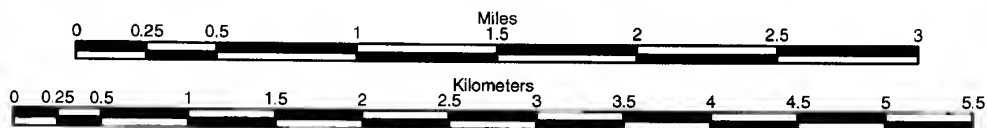
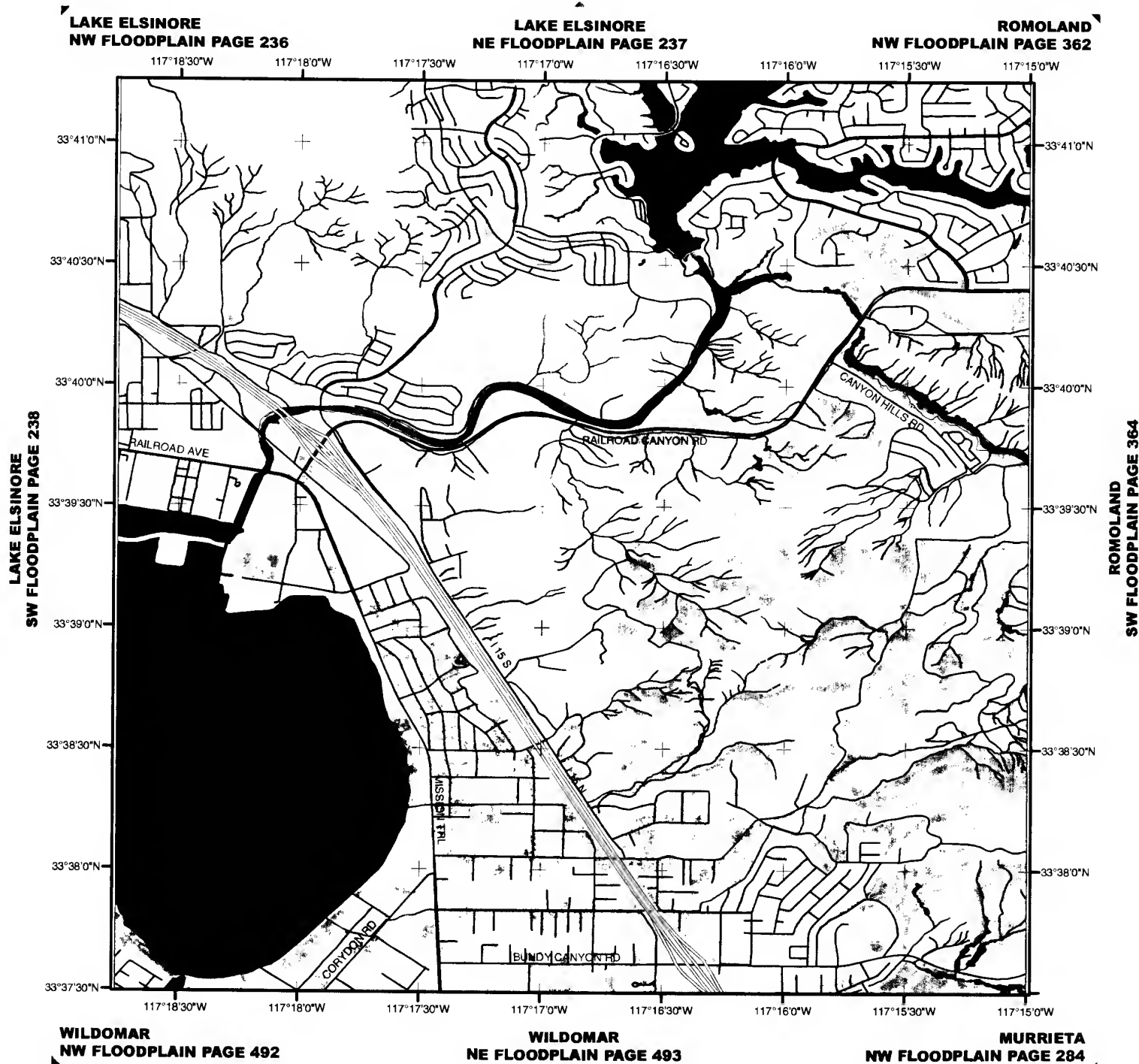
# Lake Elsinore North East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



# Lake Elsinore South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



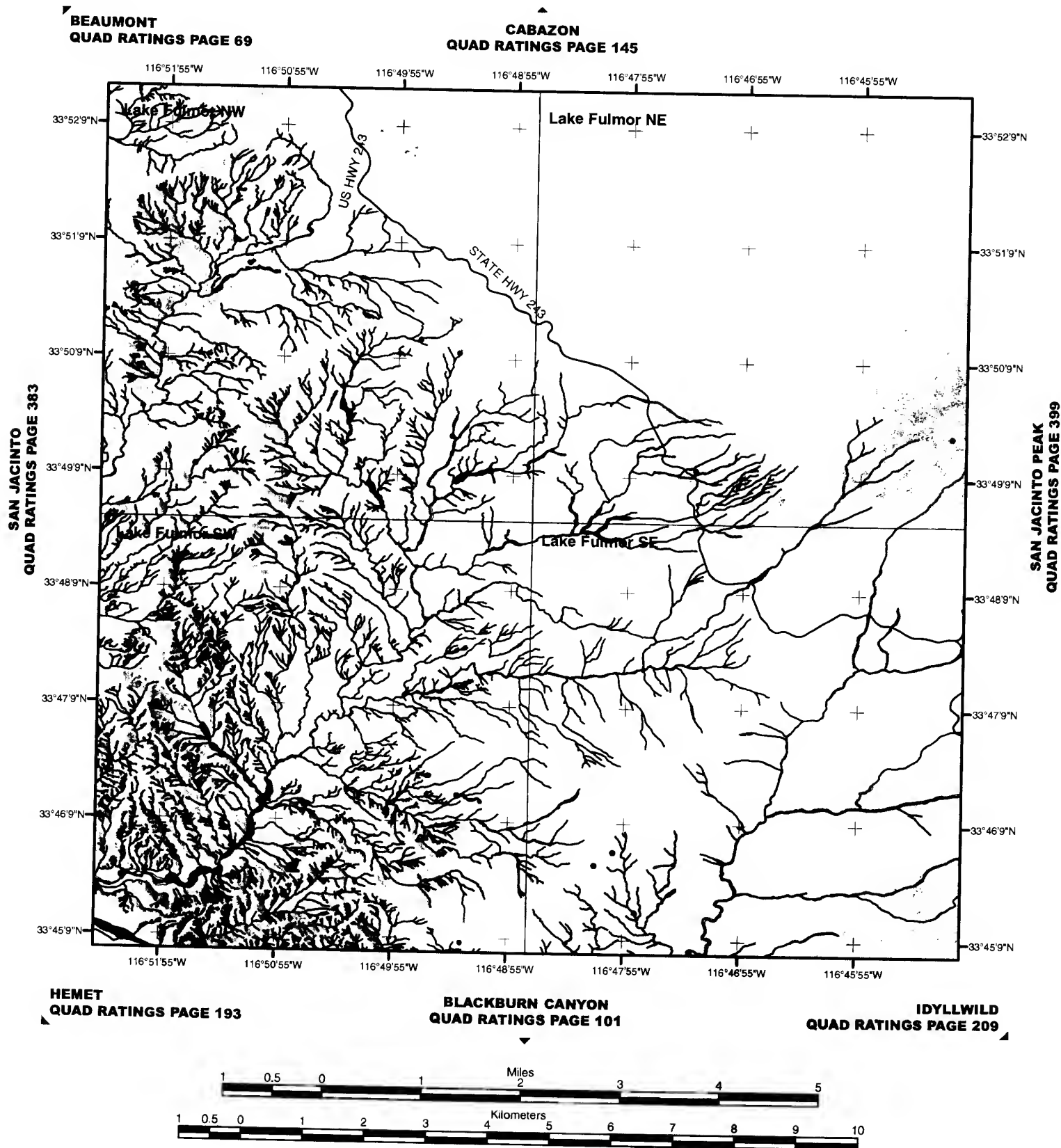
# Lake Elsinore South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



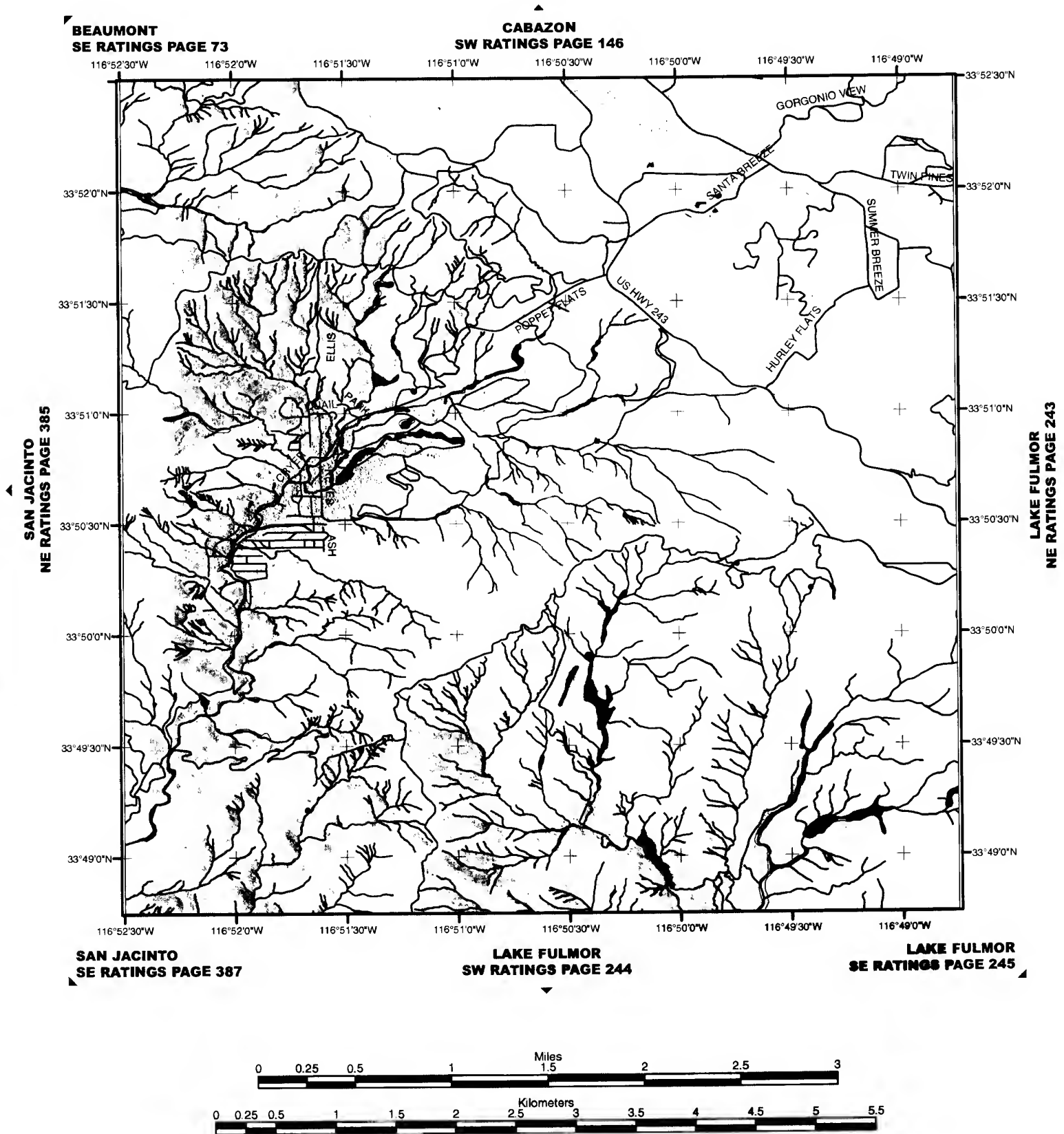


# Lake Fulmor Quadrangle

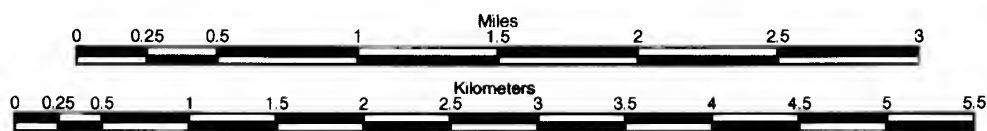
## Regulatory Probability Ratings for Aquatic Resources



# Lake Fulmor North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

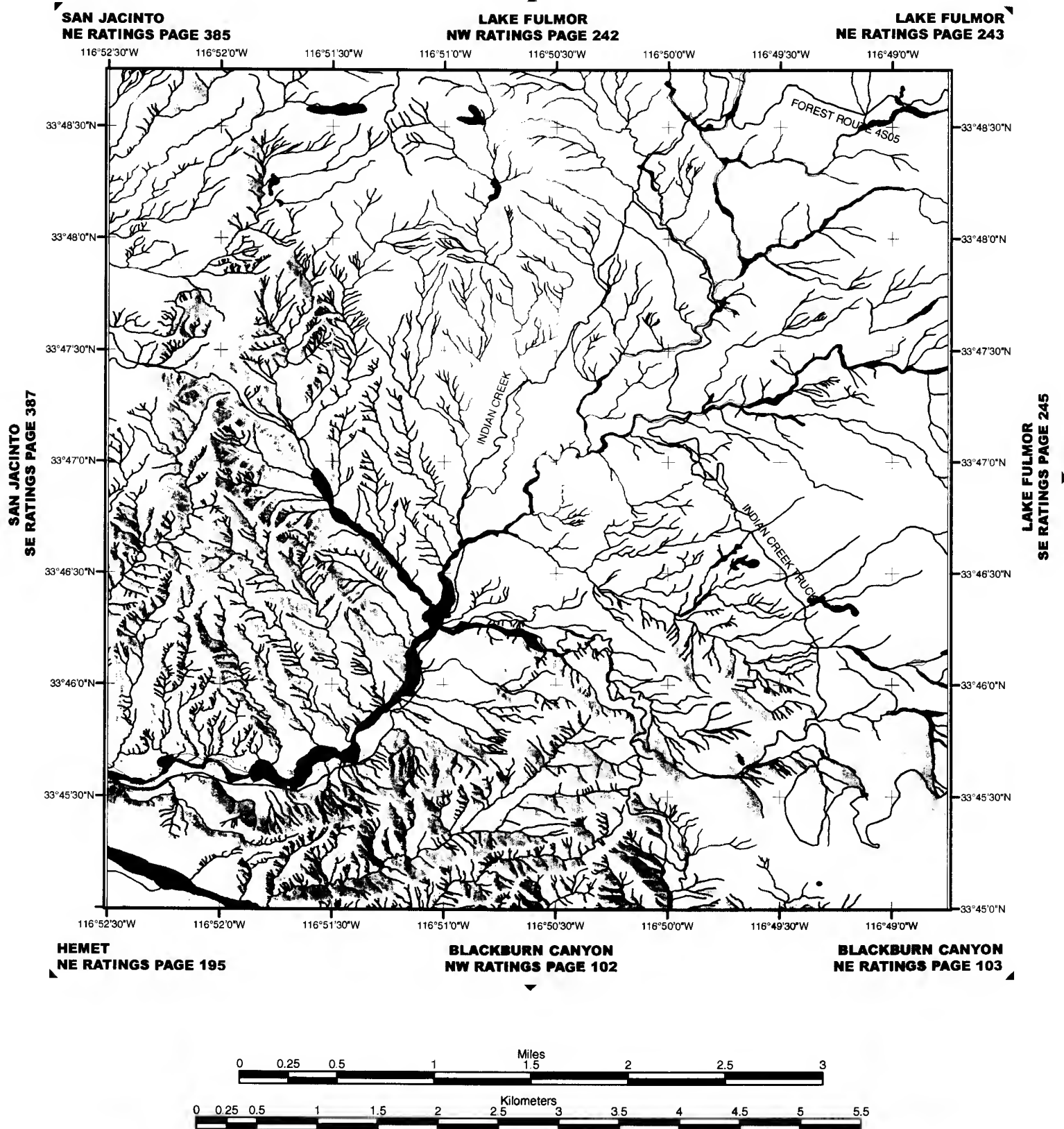


**CABAZON**  
**SW RATINGS PAGE 146**

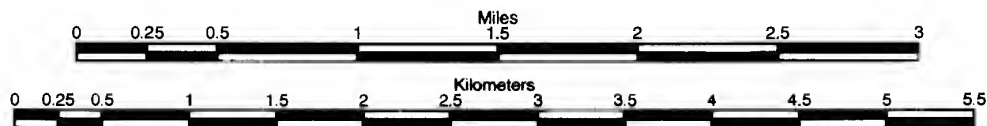
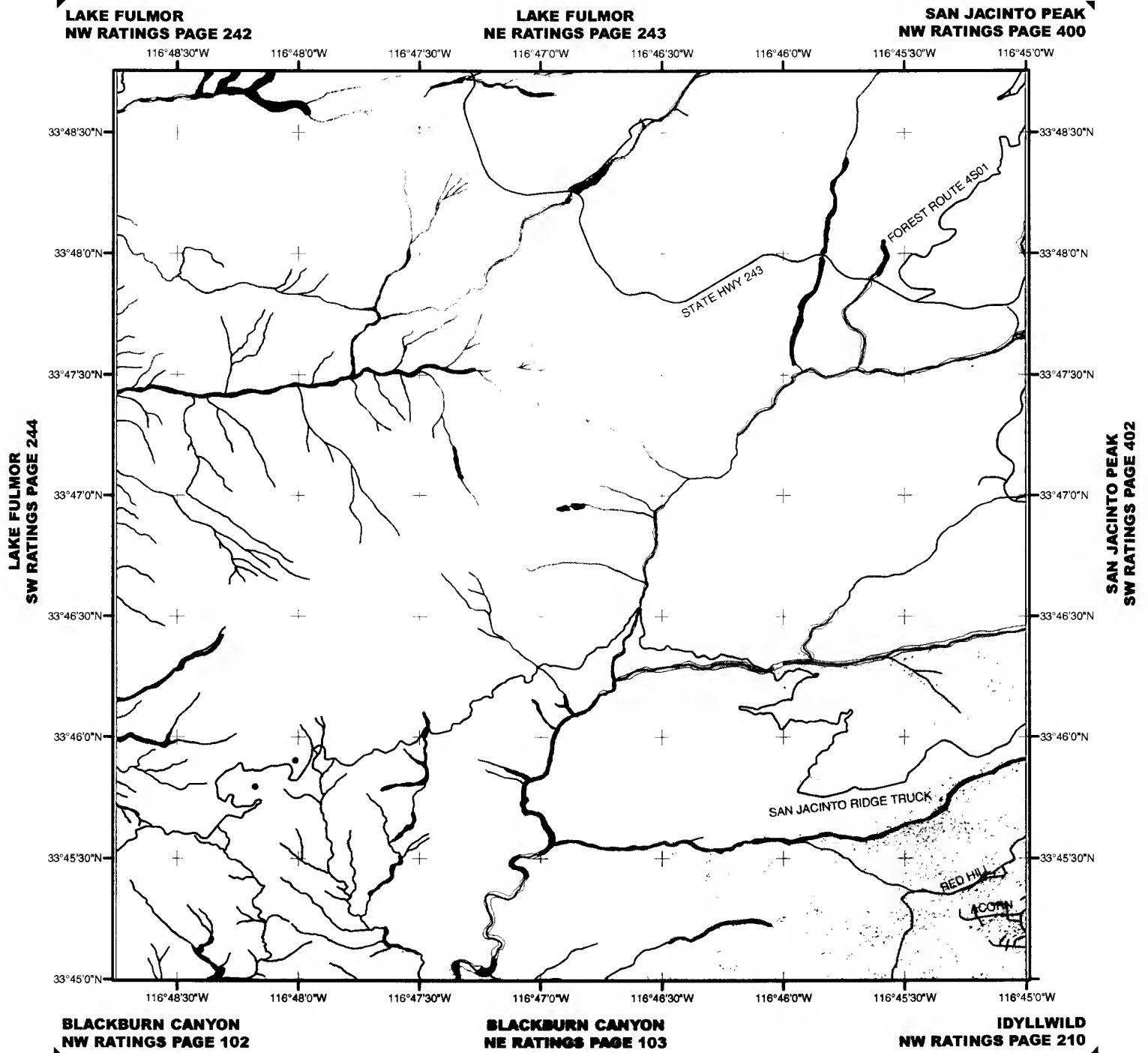




# Lake Fulmor South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

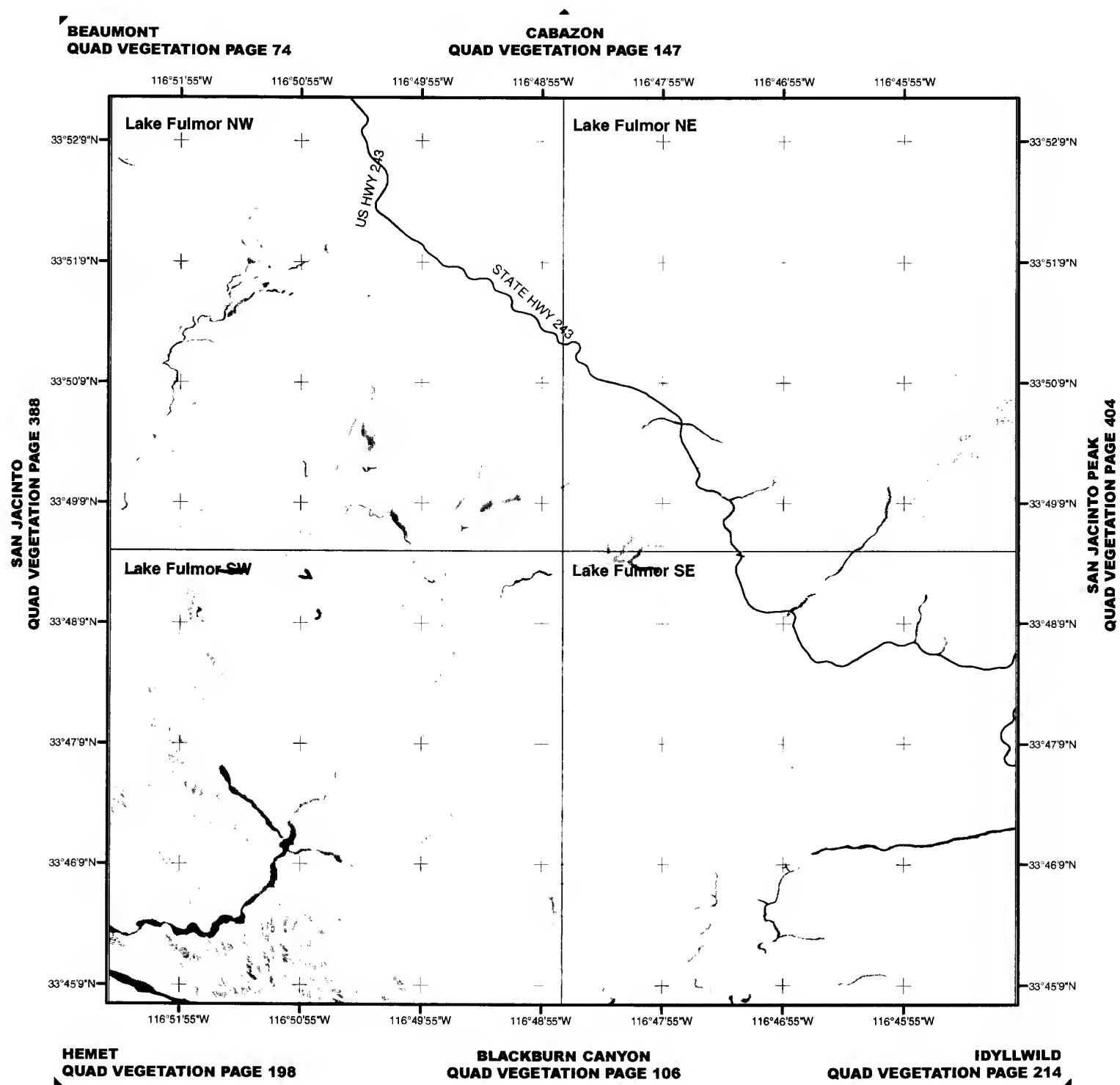


# Lake Fulmor South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



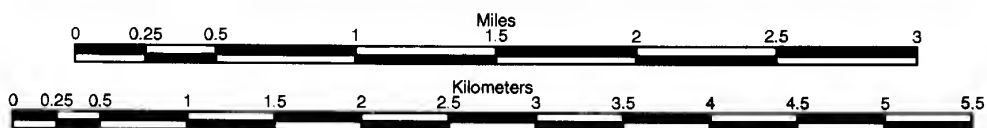
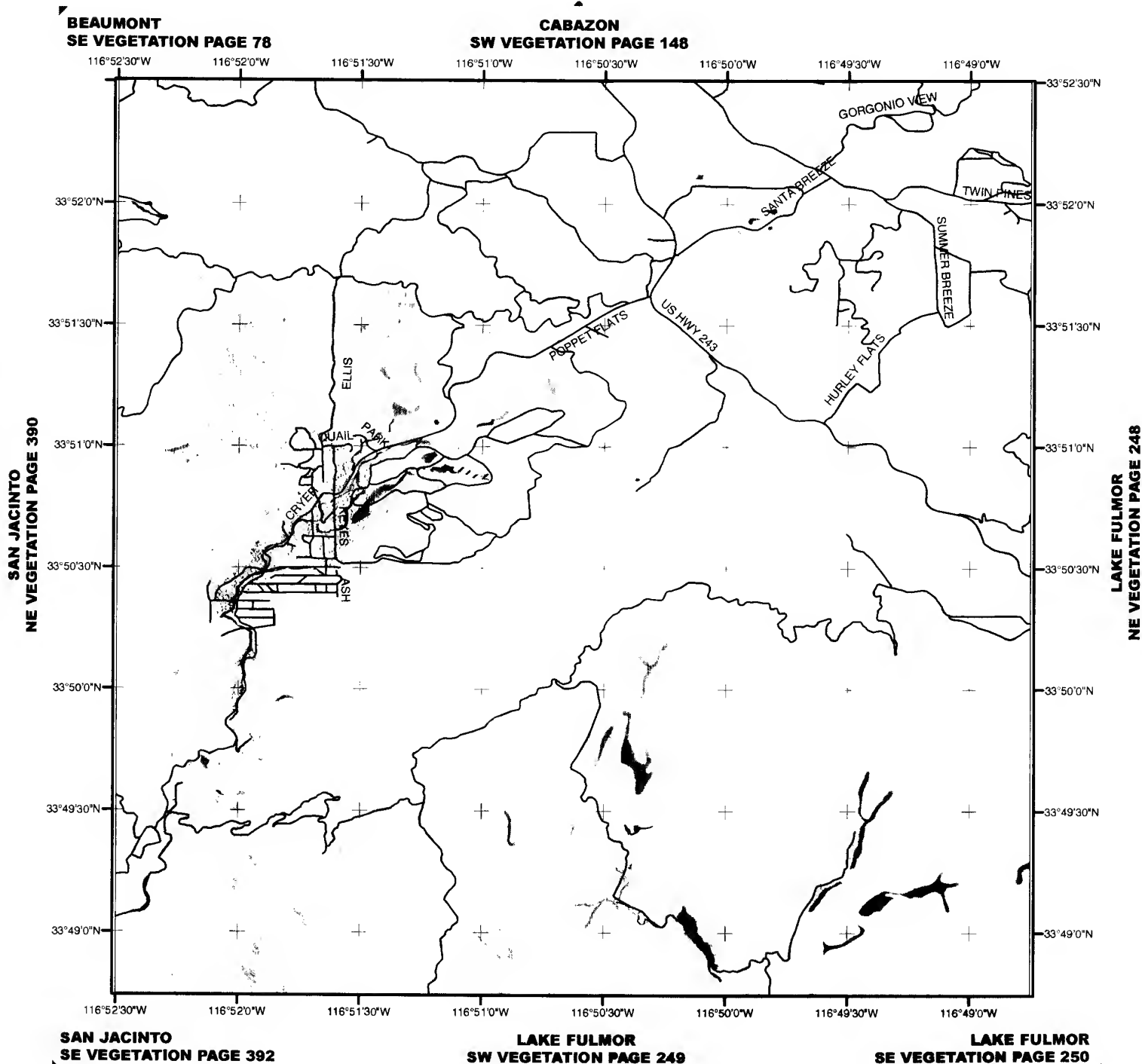
# Lake Fulmor Quadrangle

## Vegetation Species Association Units for Aquatic Resources

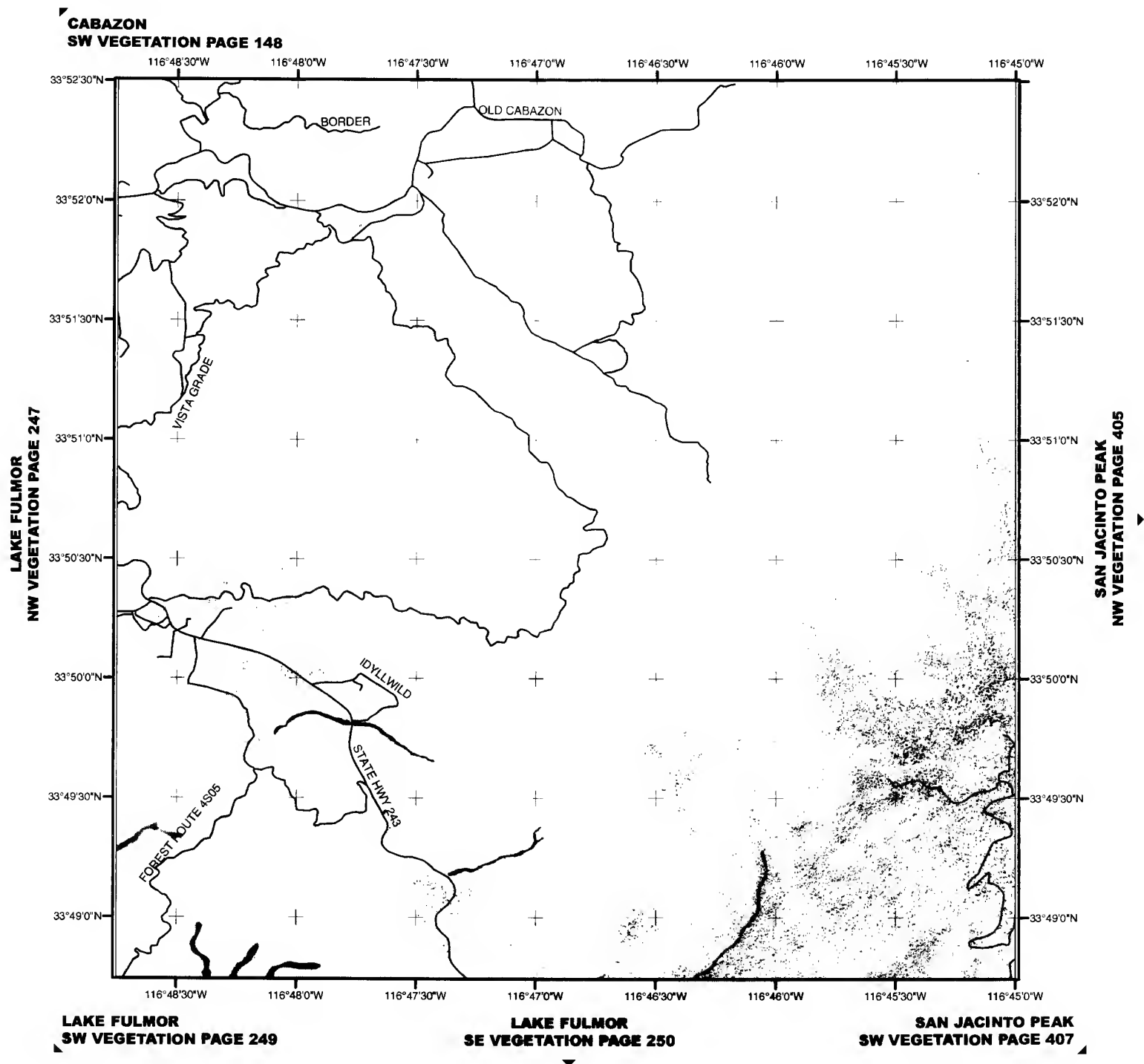


# Lake Fulmor North West Quarter-Quadrangle

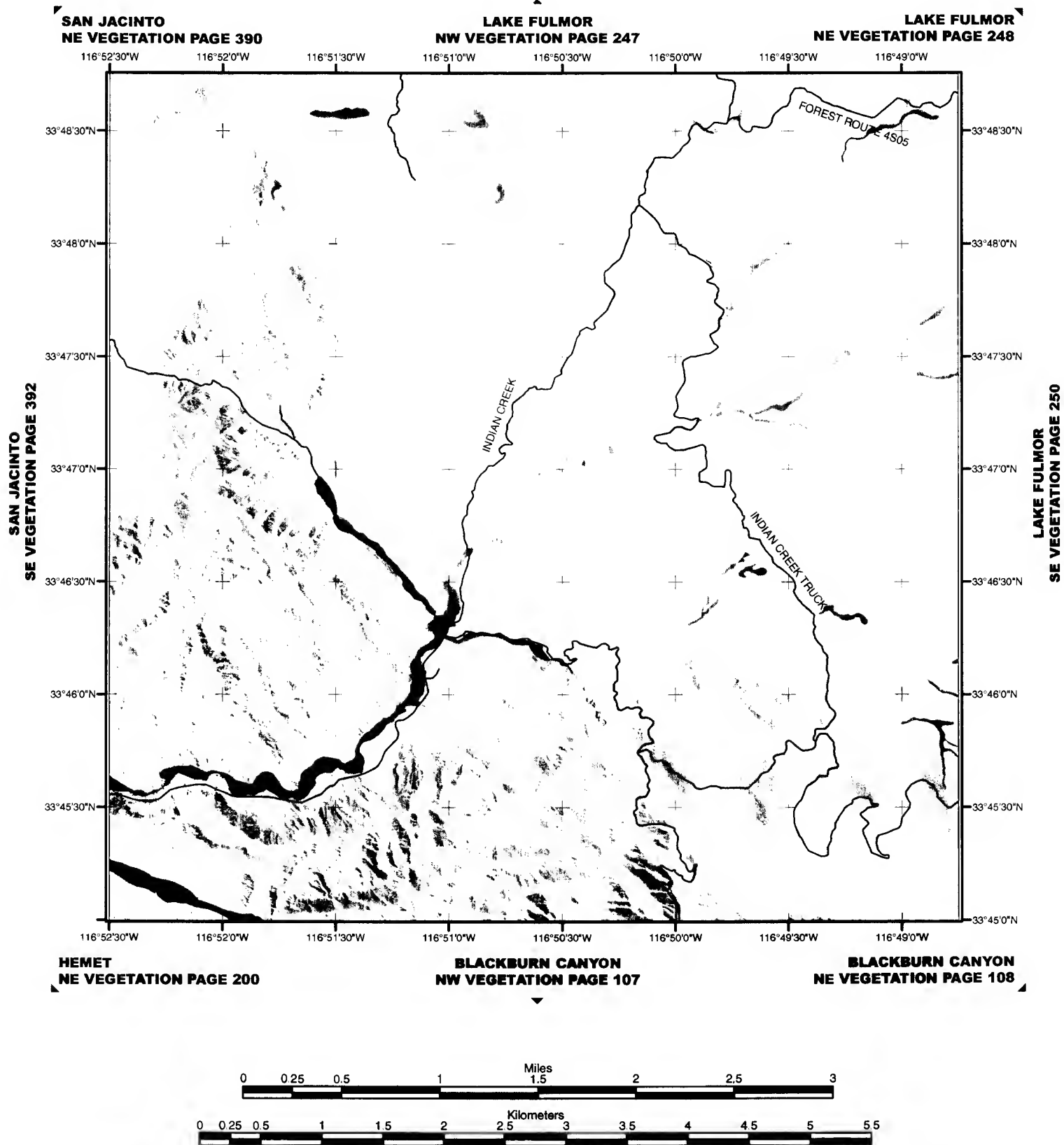
## Vegetation Species Association Units for Aquatic Resources



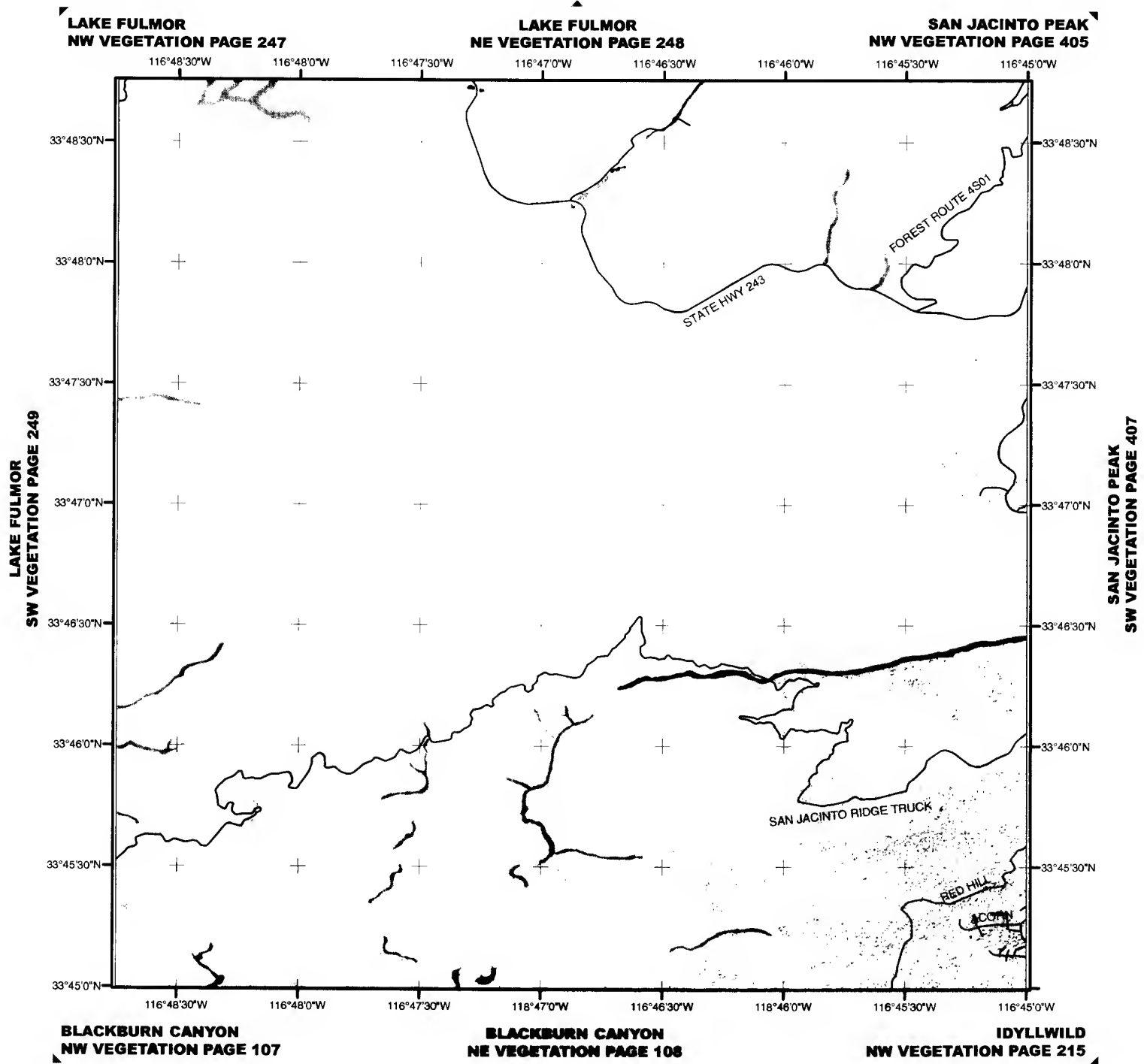
# Lake Fulmor North East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



# Lake Fulmor South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

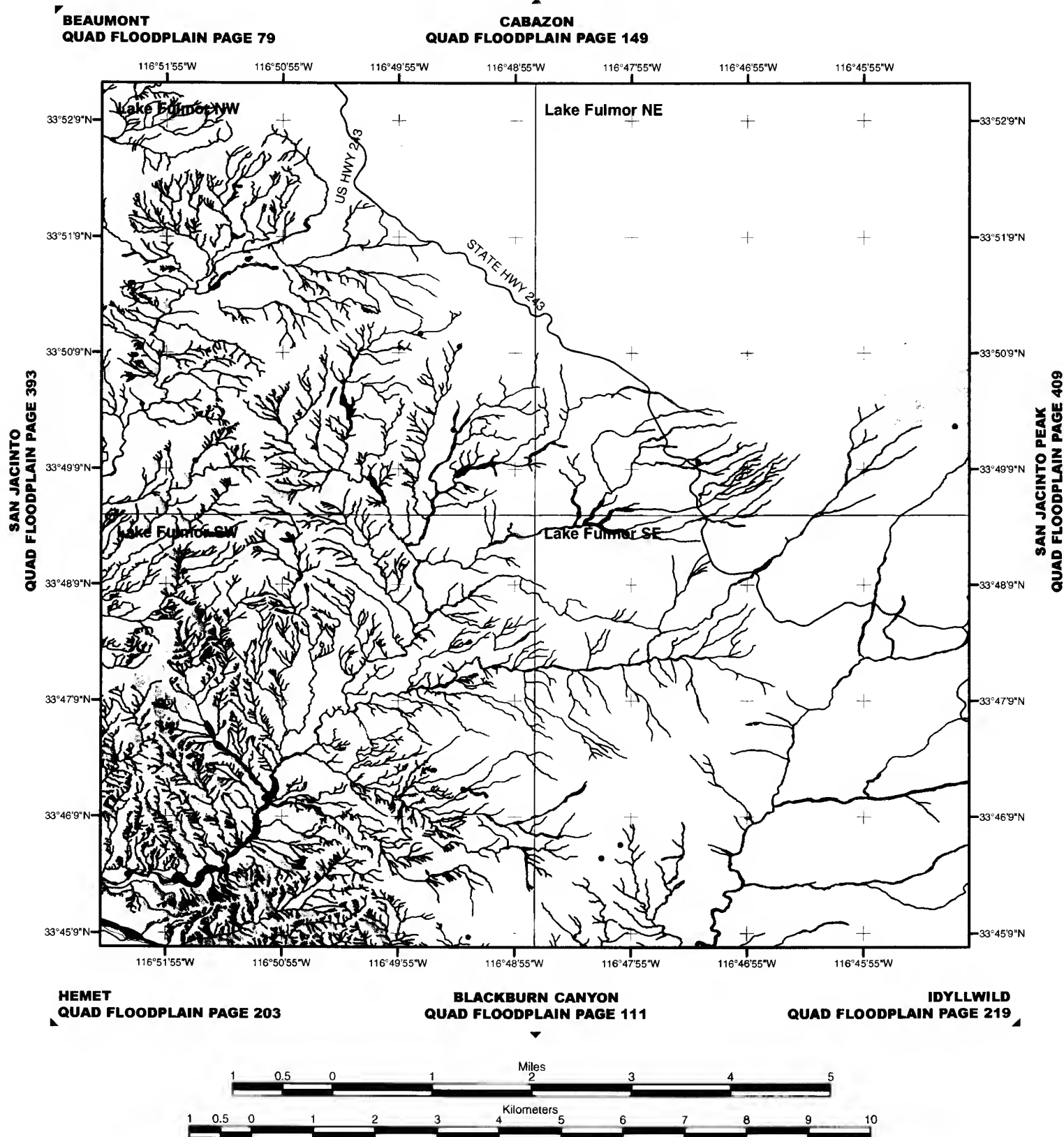


# Lake Fulmor South East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



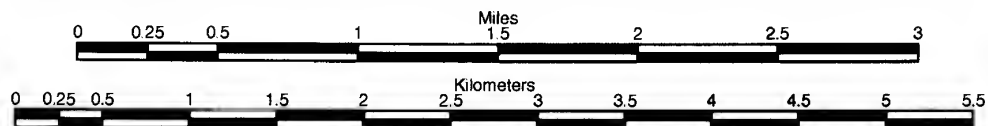
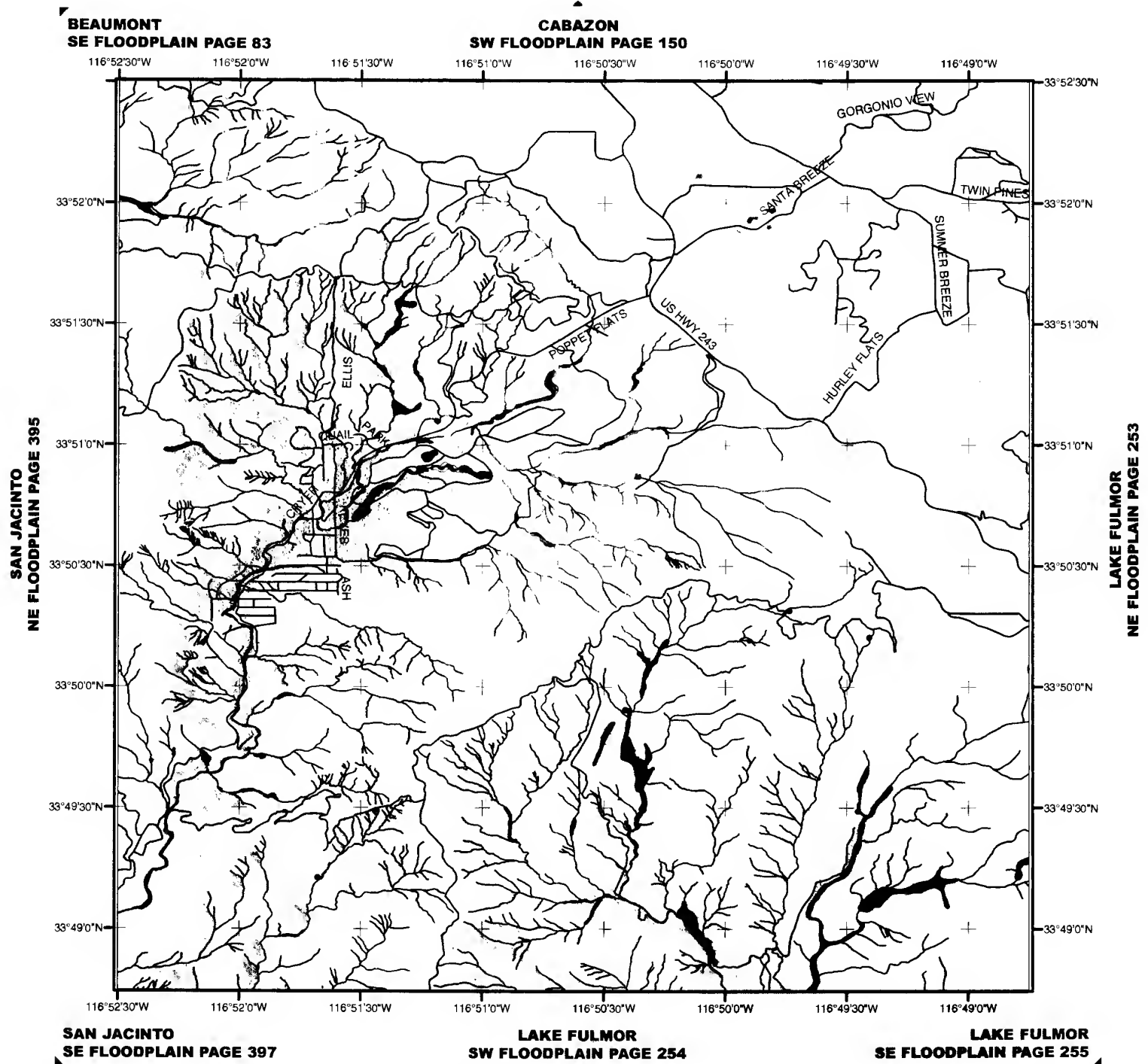
# Lake Fulmor Quadrangle

## Hydrogeomorphic Floodplain Units for Aquatic Resources

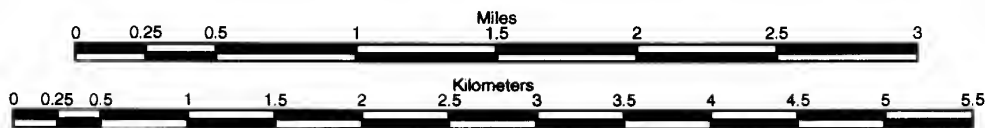
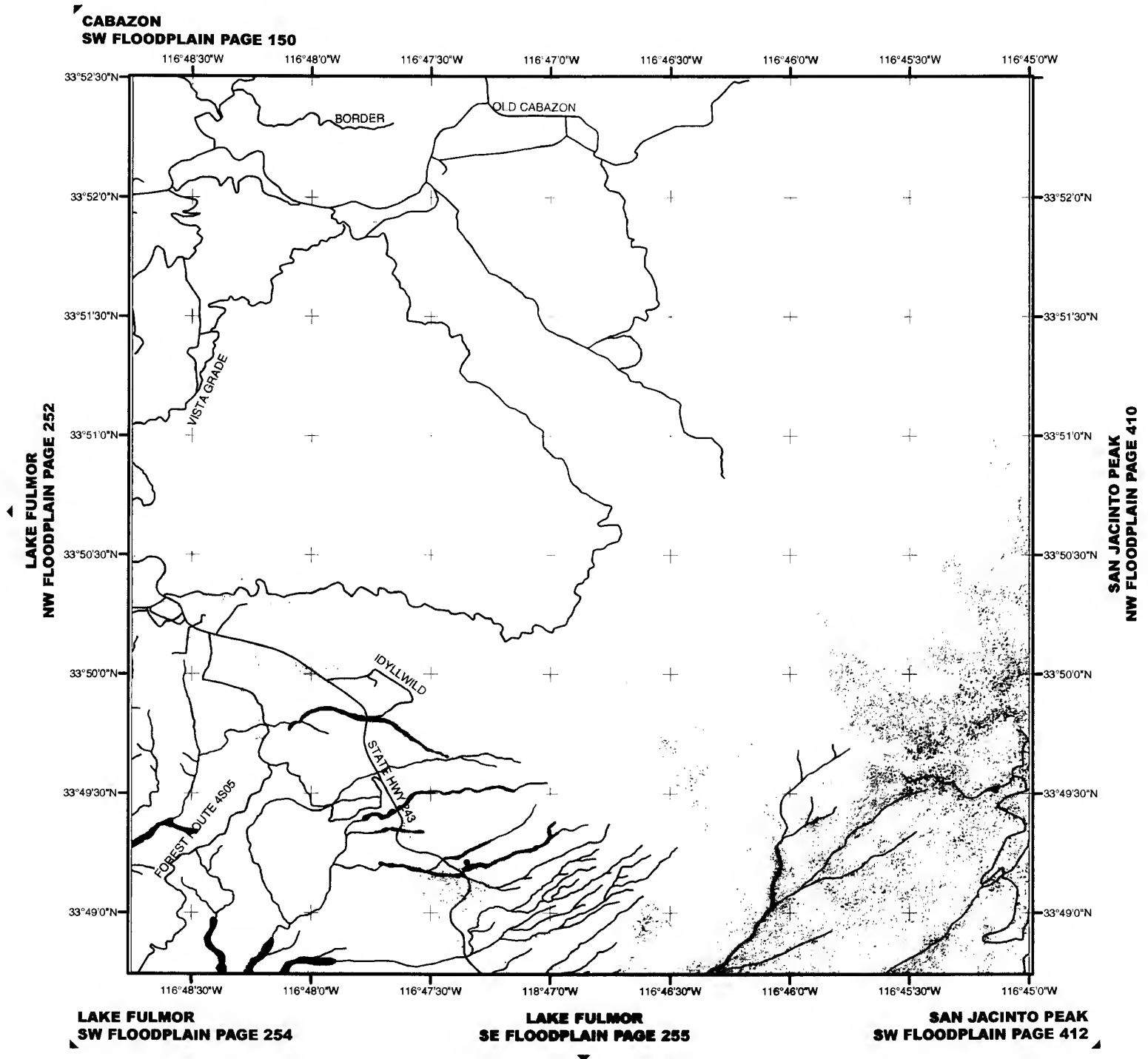




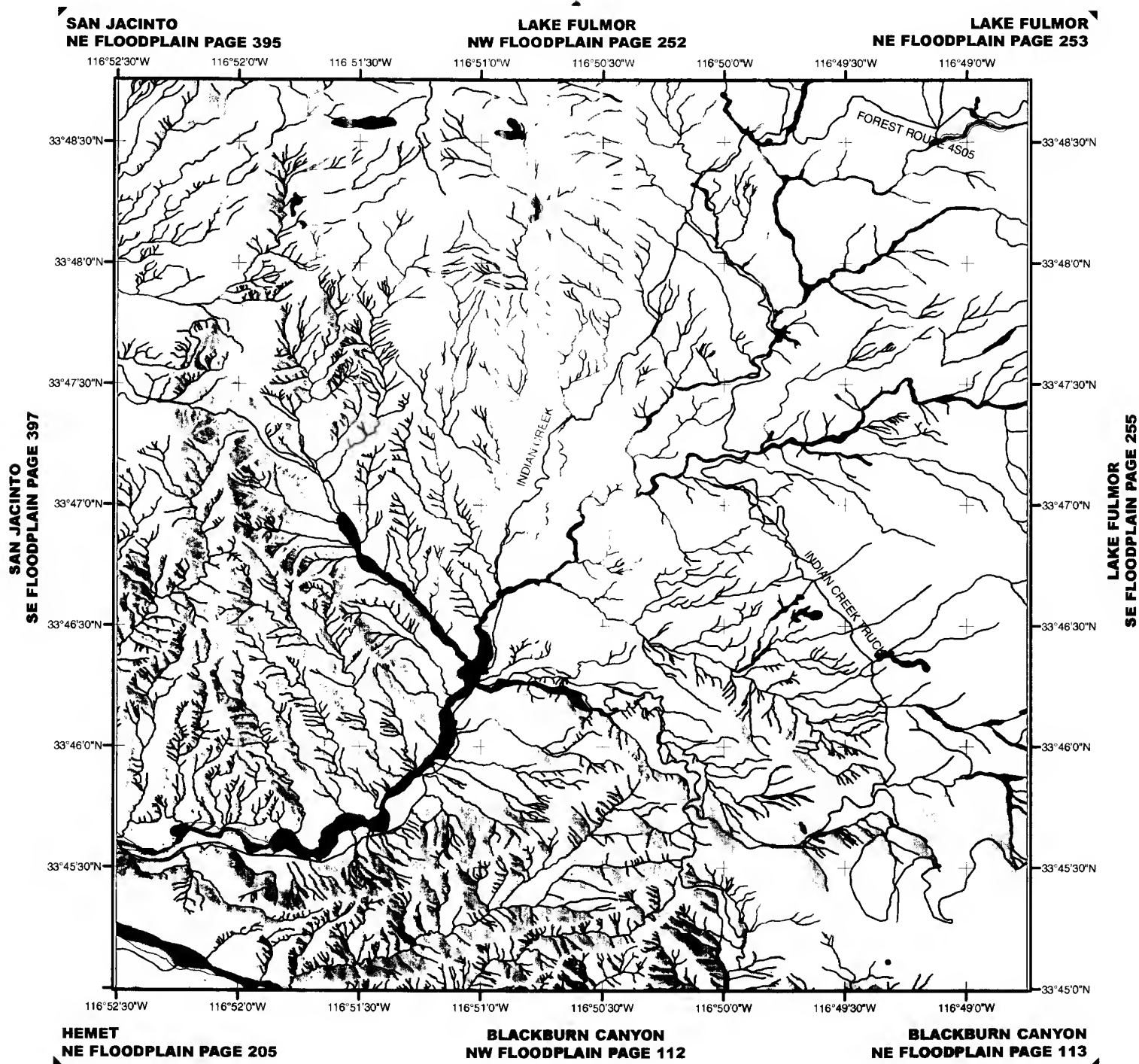
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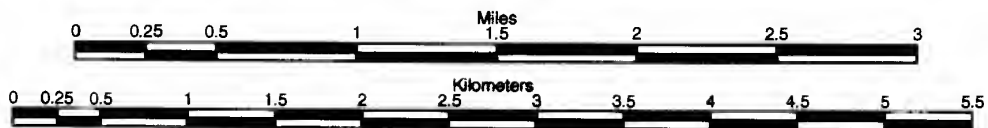
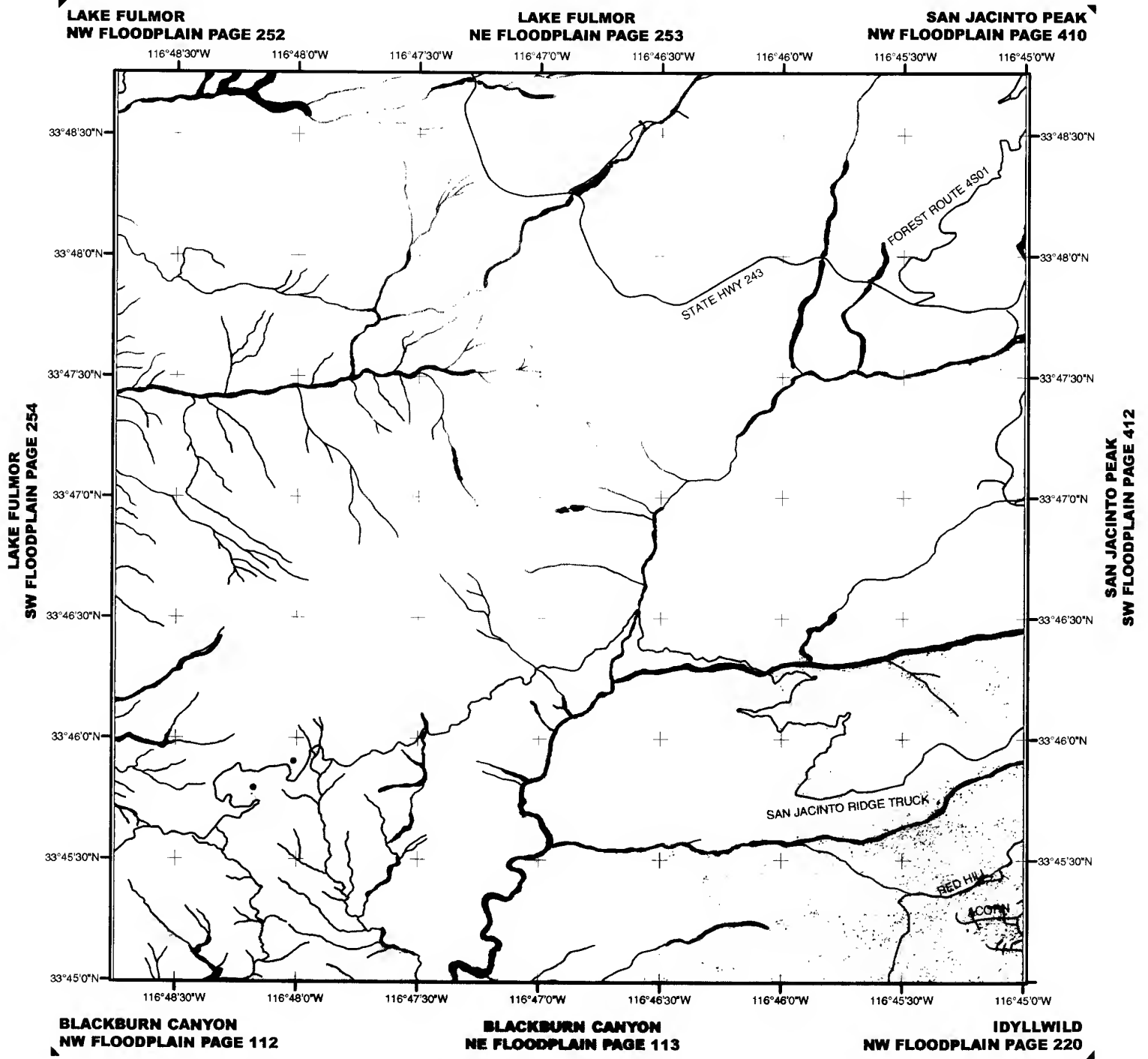
# Lake Fulmor North East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



# Lake Fulmor South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



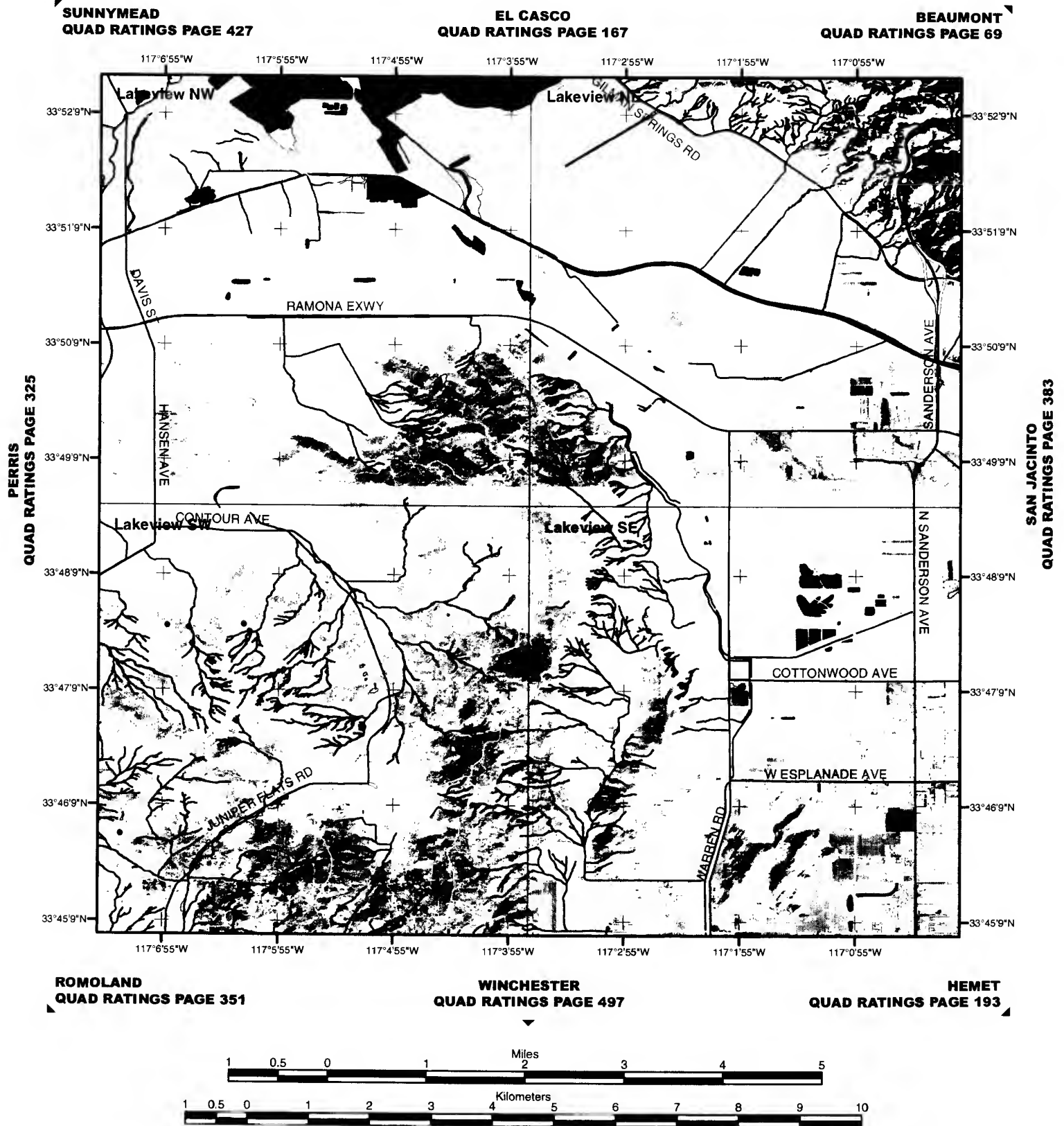
# Lake Fulmor South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



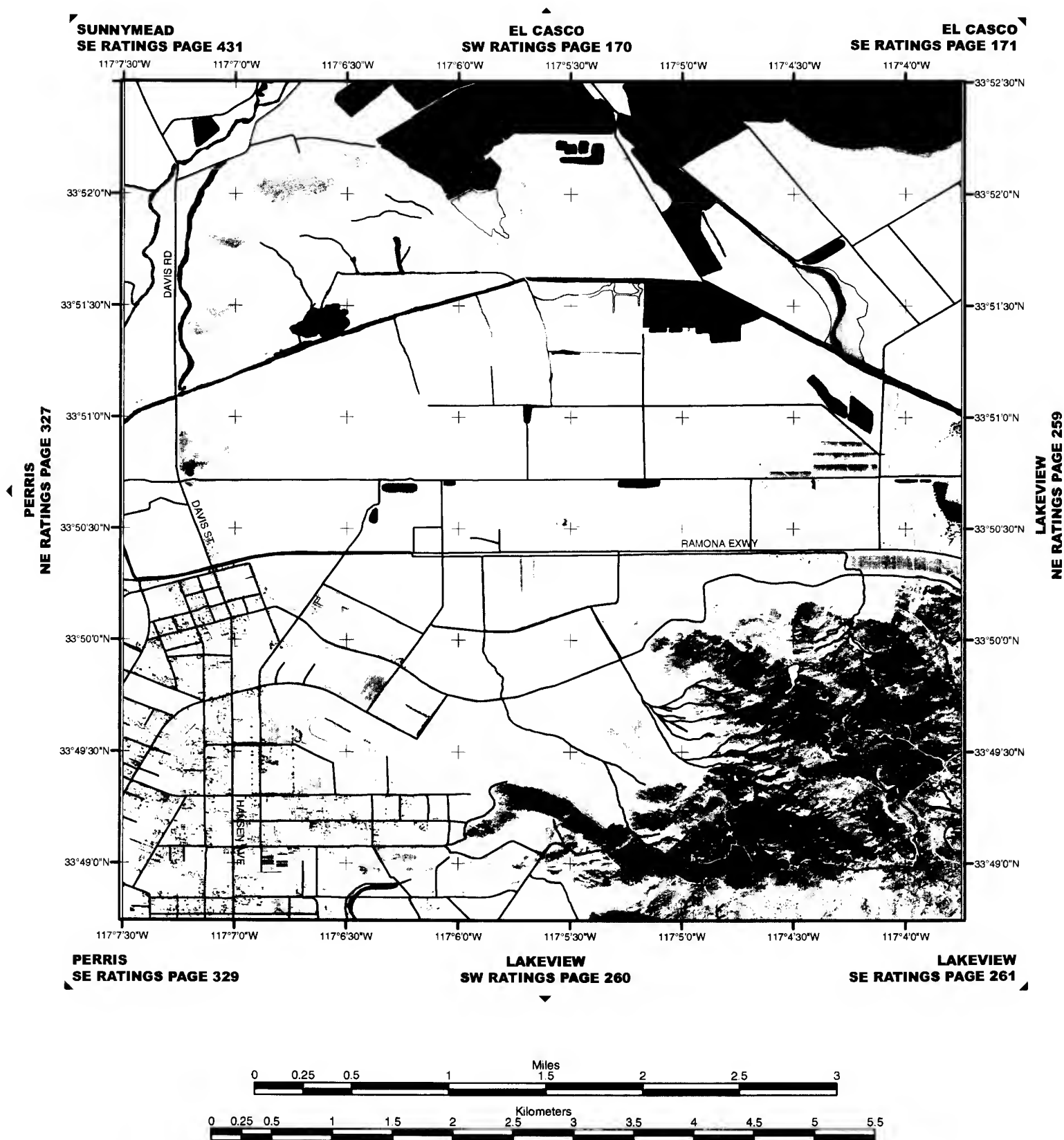


# Lakeview Quadrangle

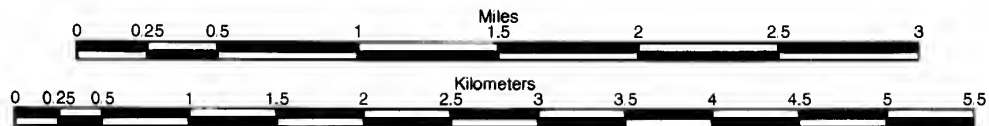
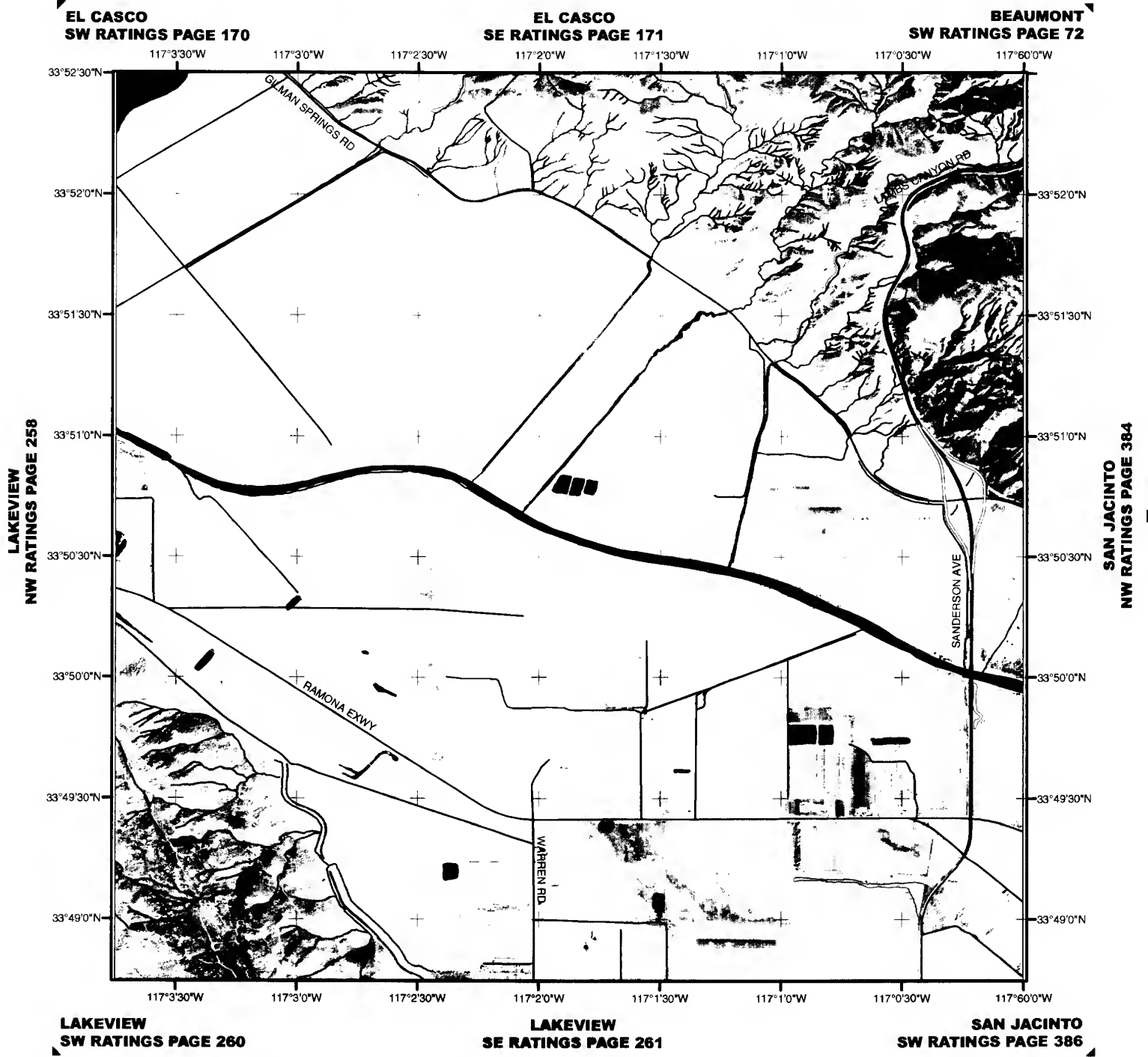
## Regulatory Probability Ratings for Aquatic Resources



# Lakeview North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

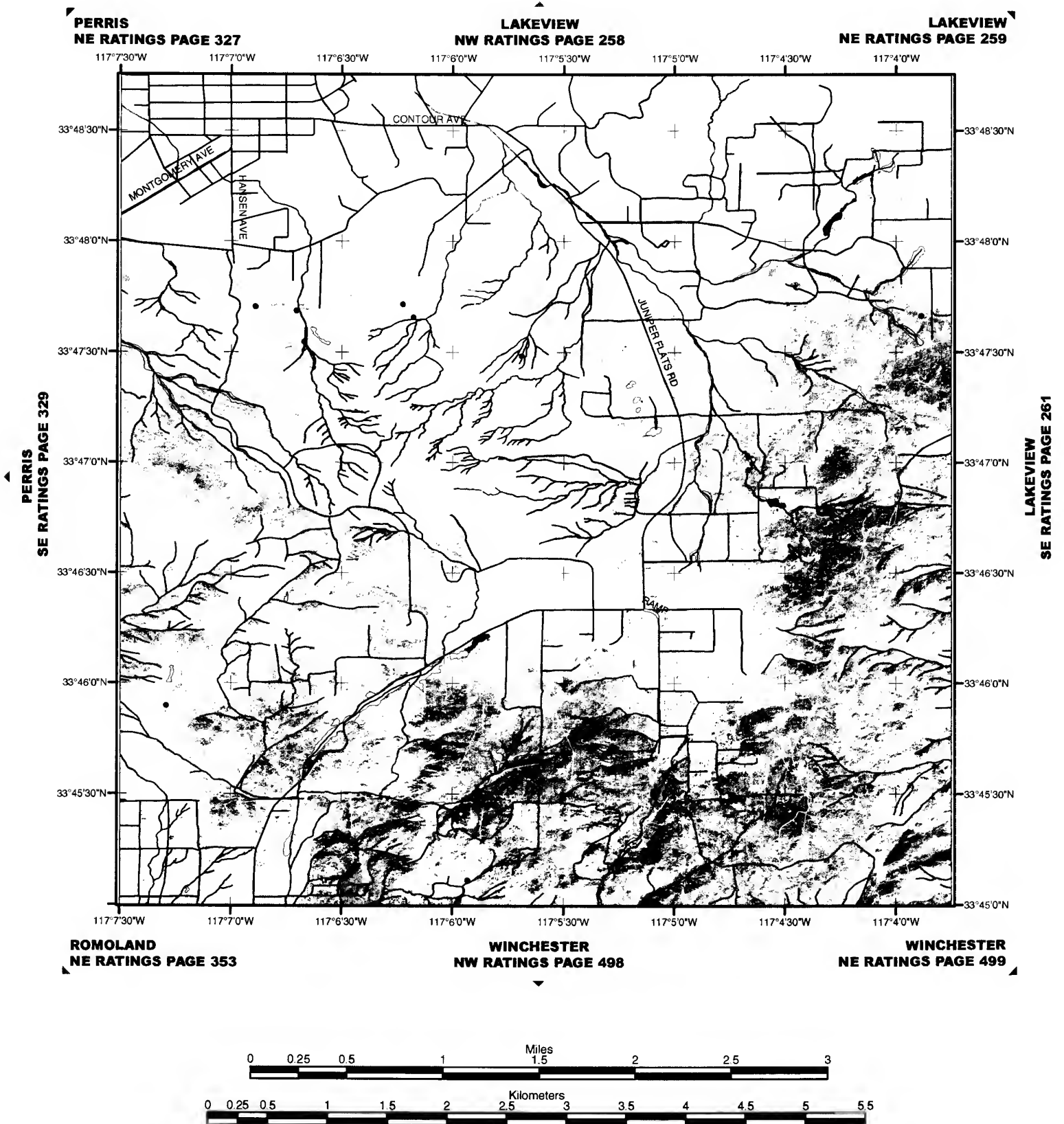


# Lakeview North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

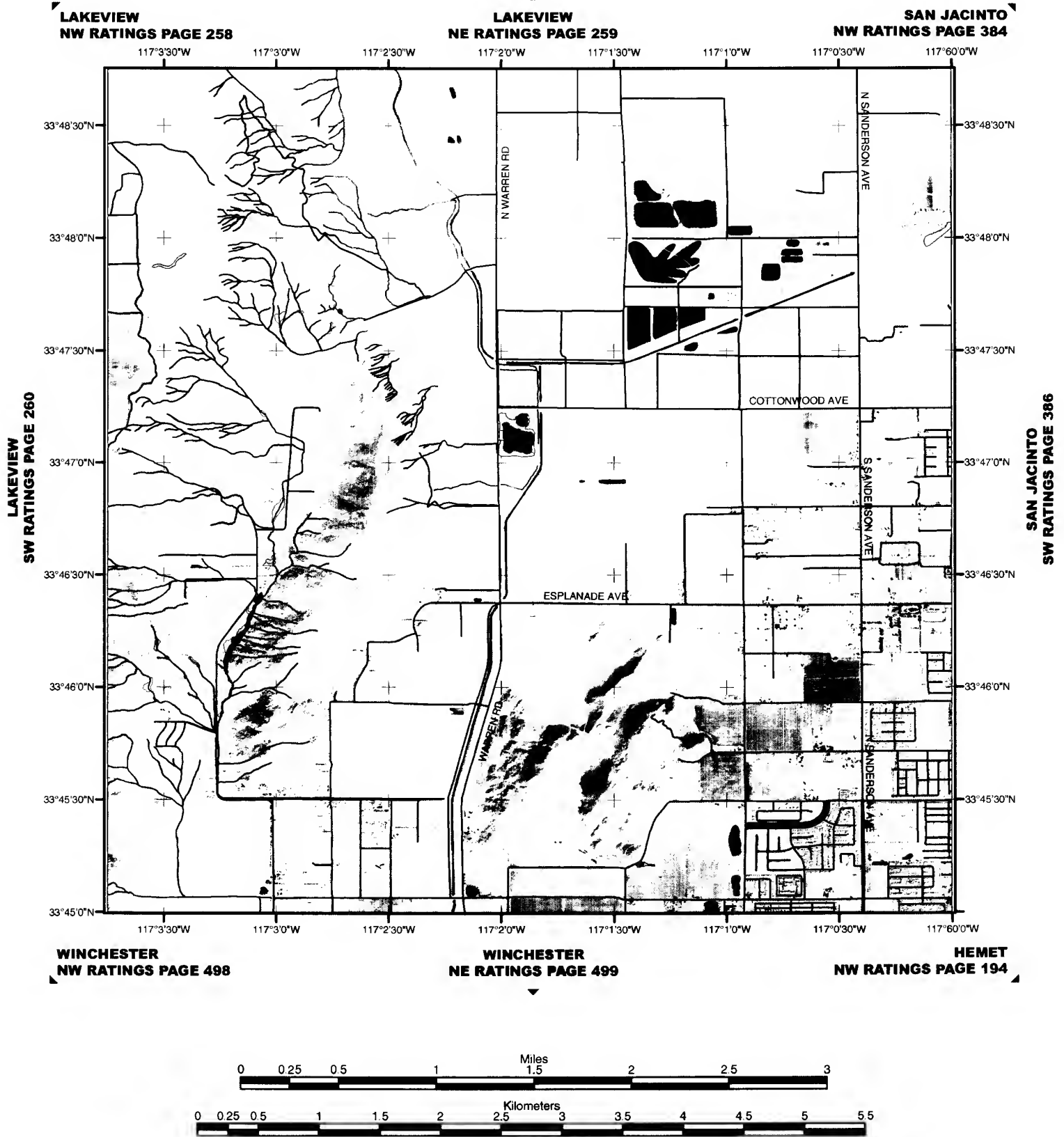




# Lakeview South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

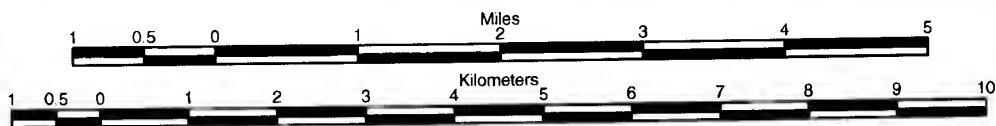
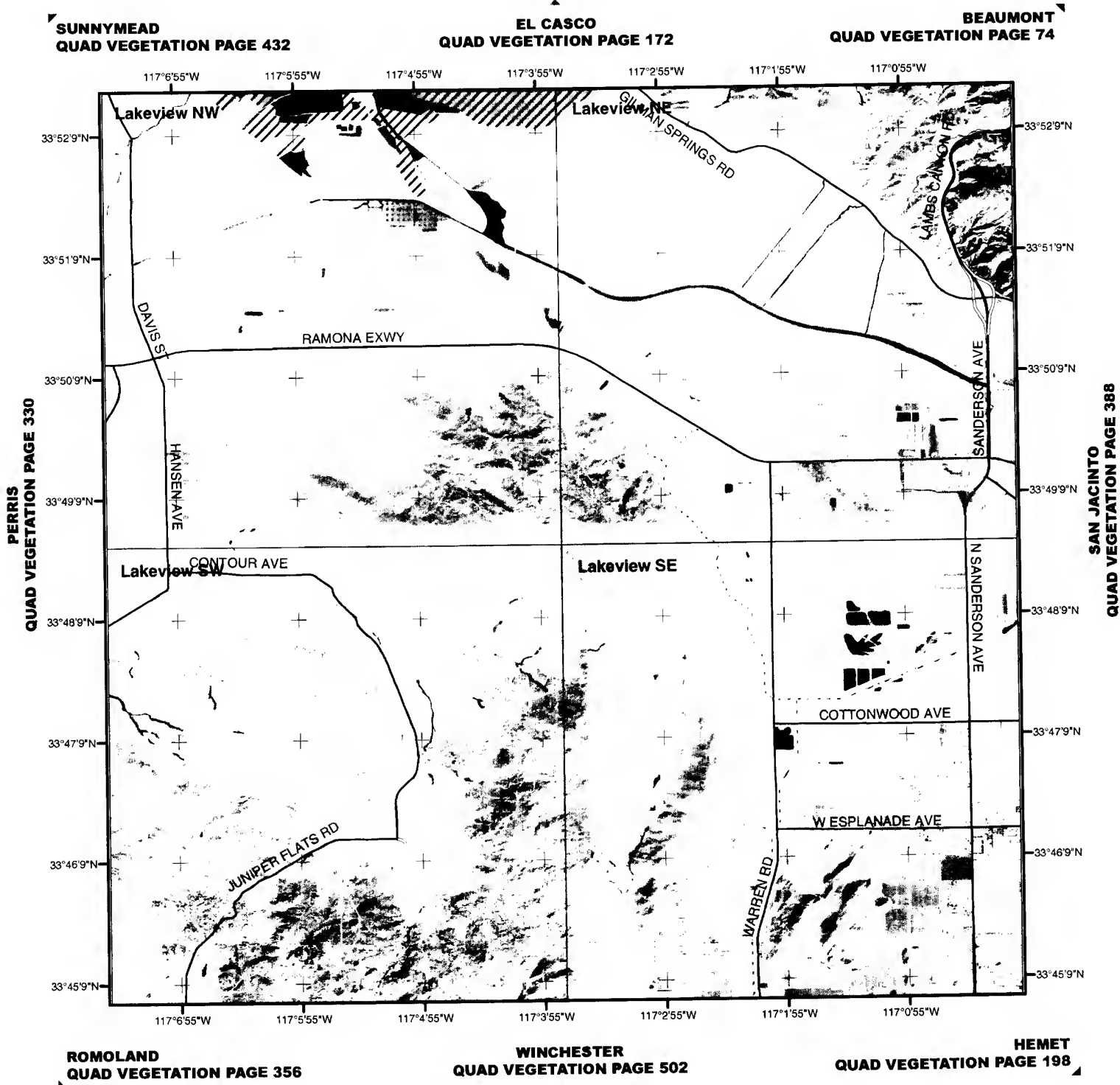


# Lakeview South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

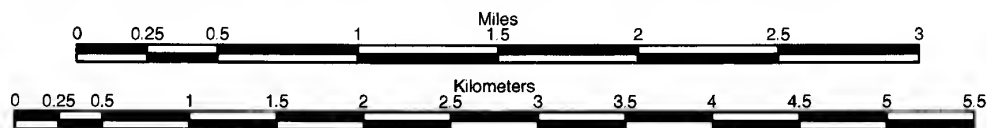
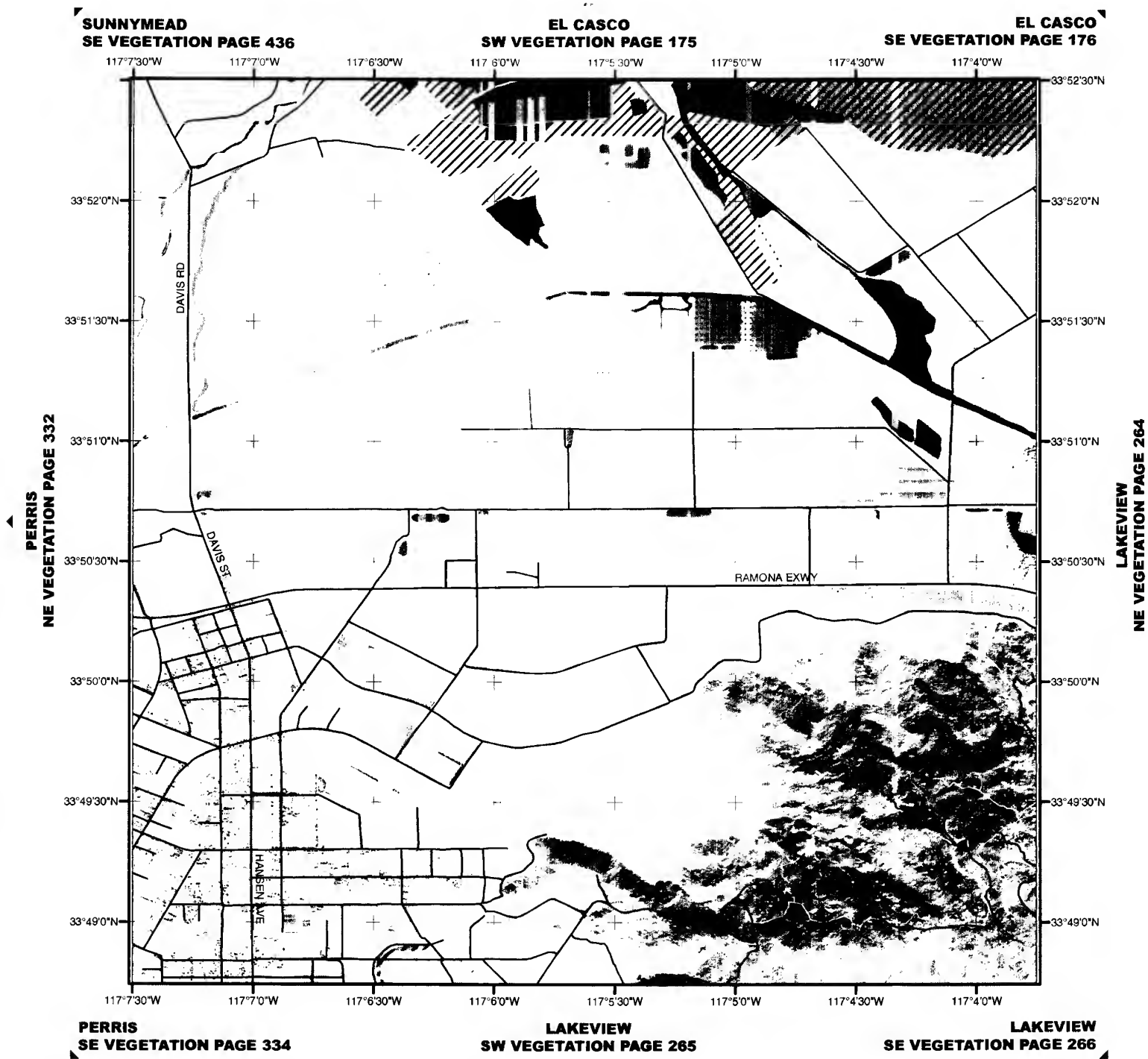


# Lakeview Quadrangle

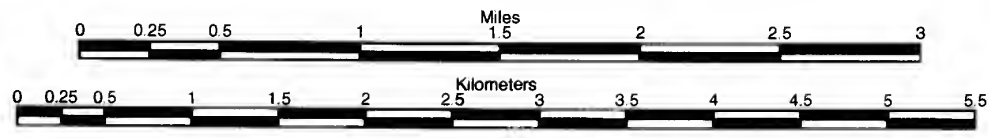
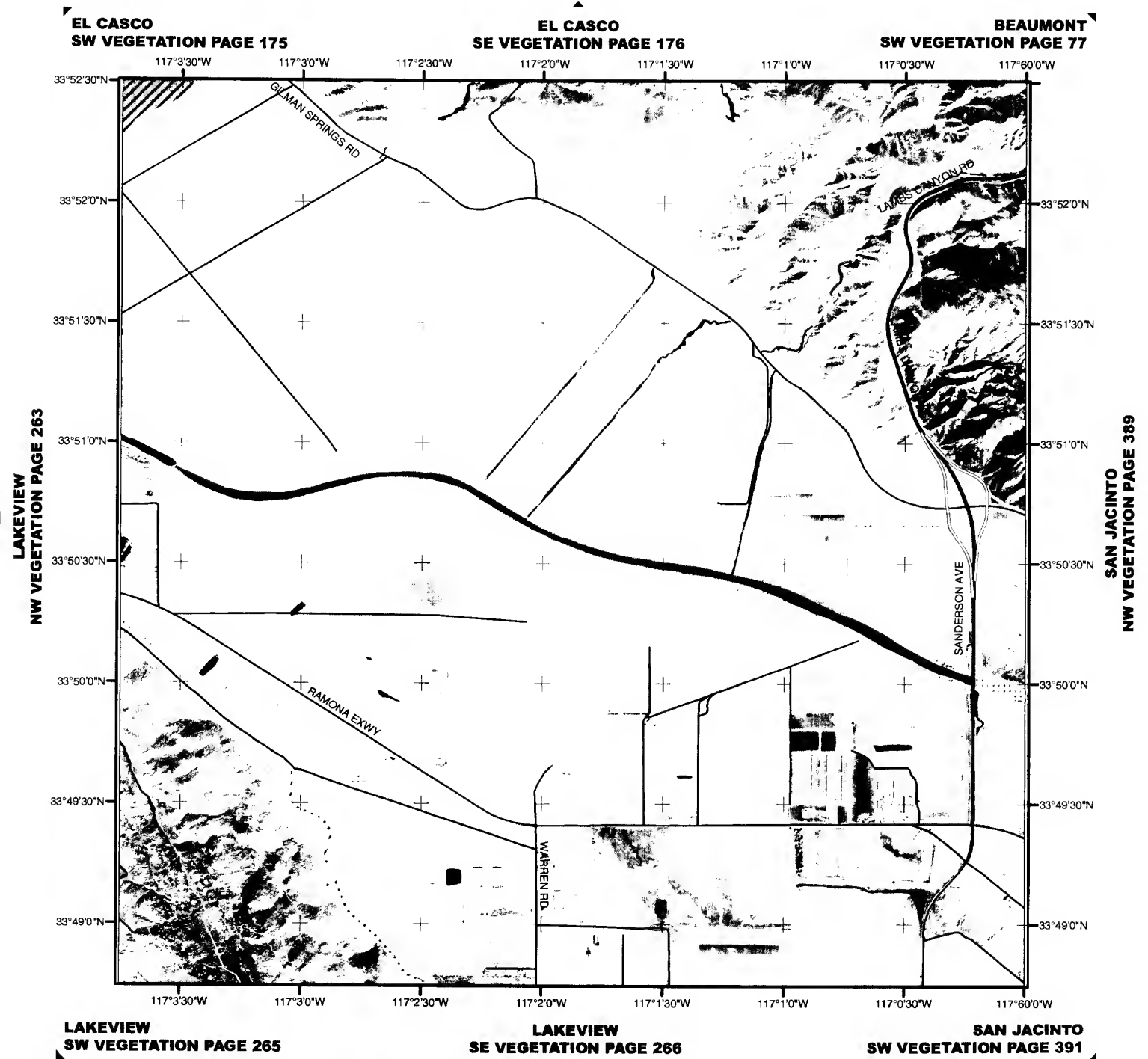
## Vegetation Species Association Units for Aquatic Resources



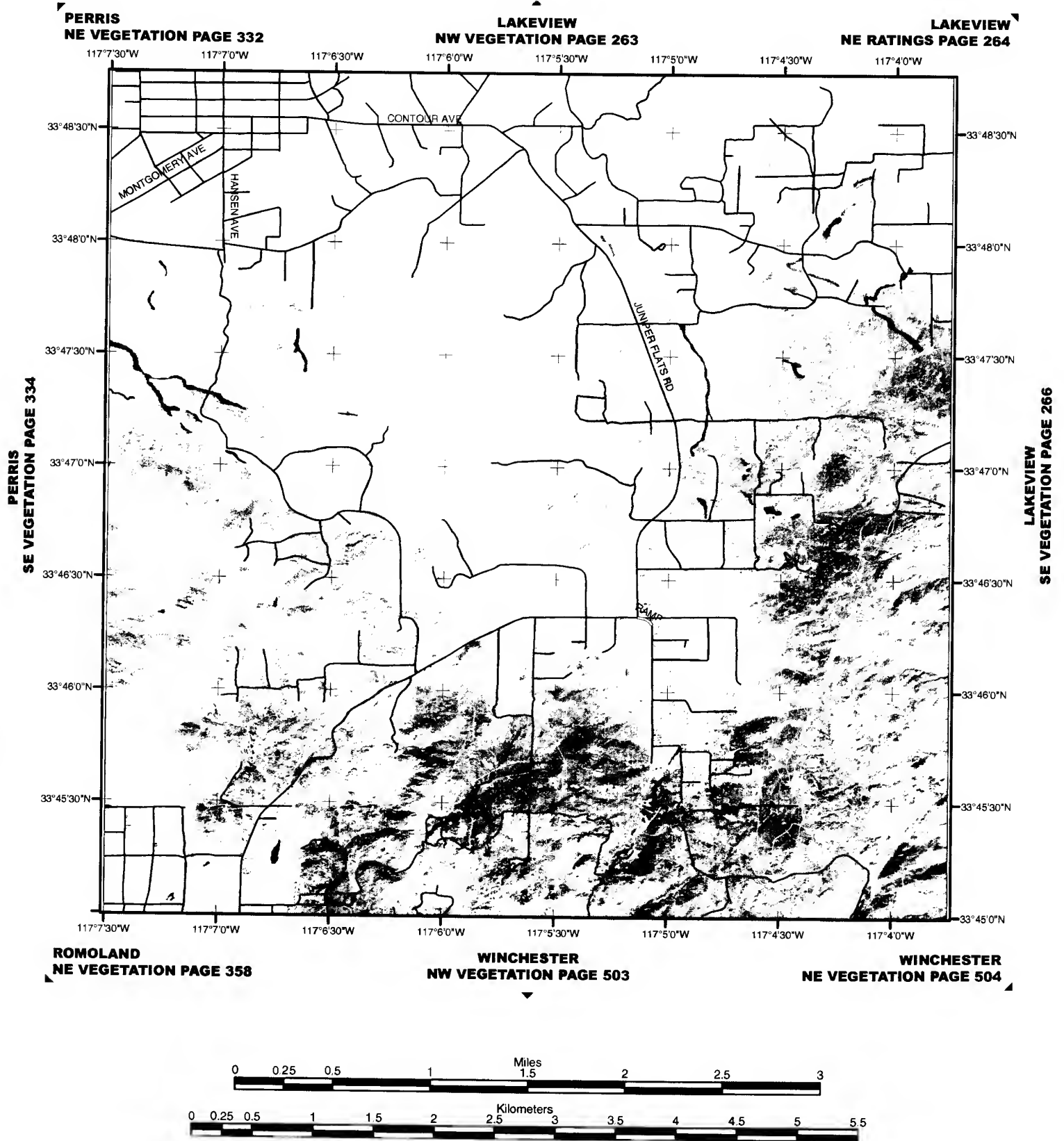
# Lakeview North West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



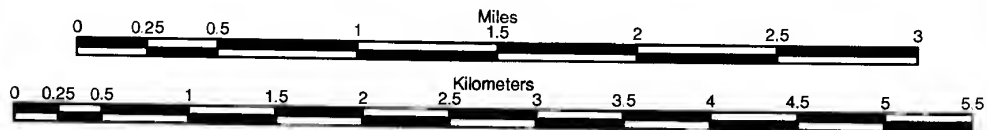
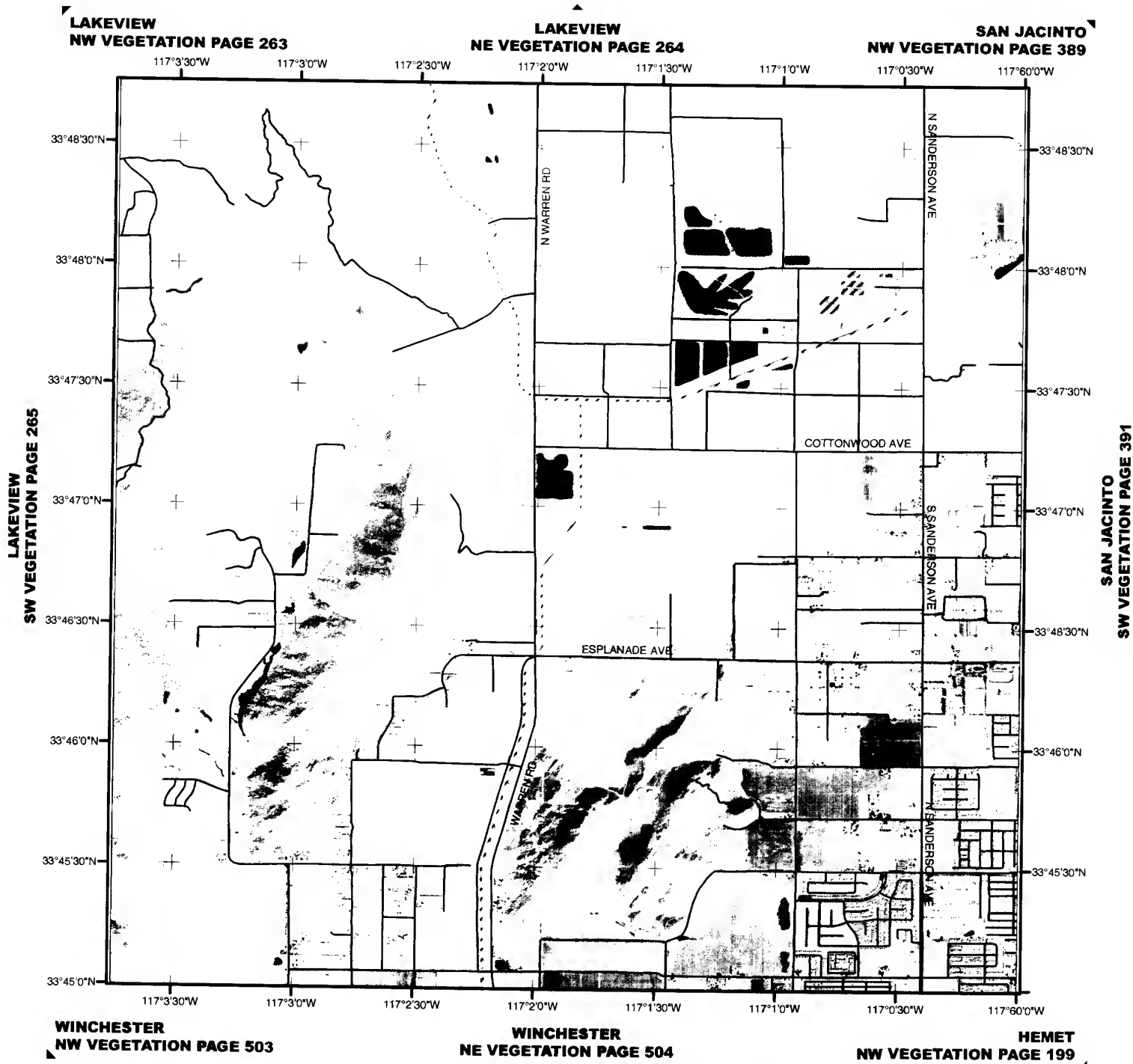
# Lakeview North East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



# Lakeview South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

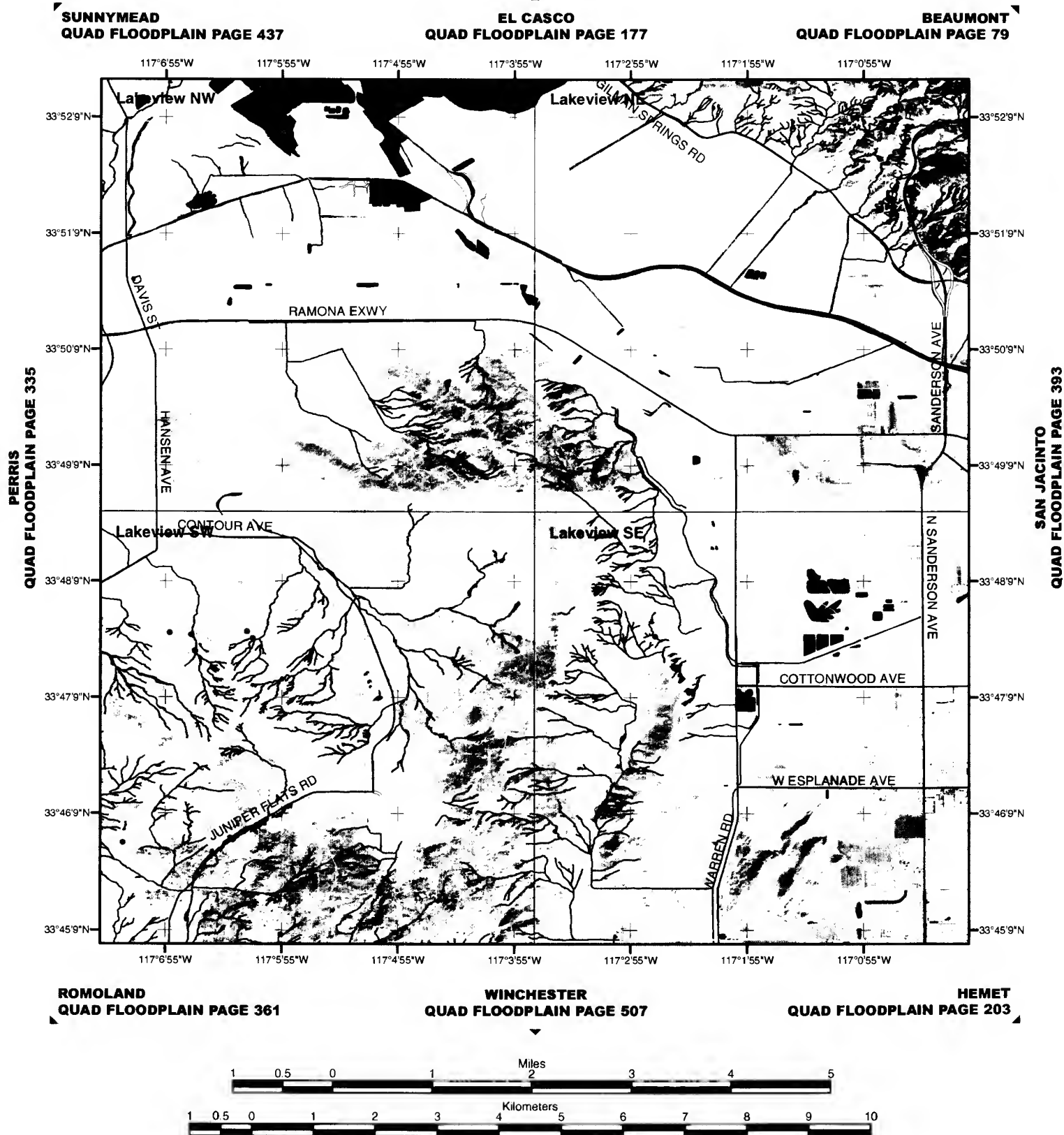


# Lakeview South East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



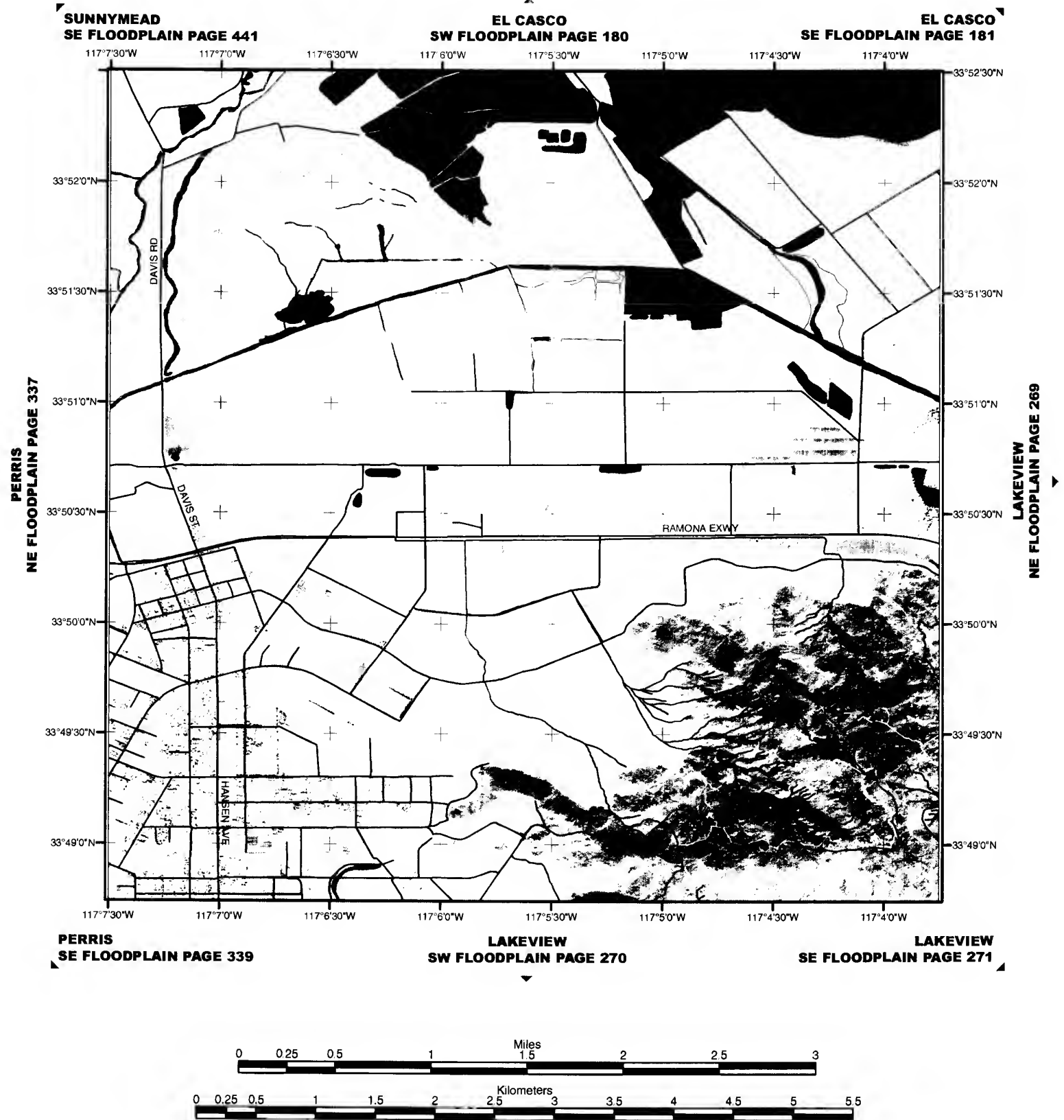
# Lakeview Quadrangle

## Hydrogeomorphic Floodplain Units for Aquatic Resources

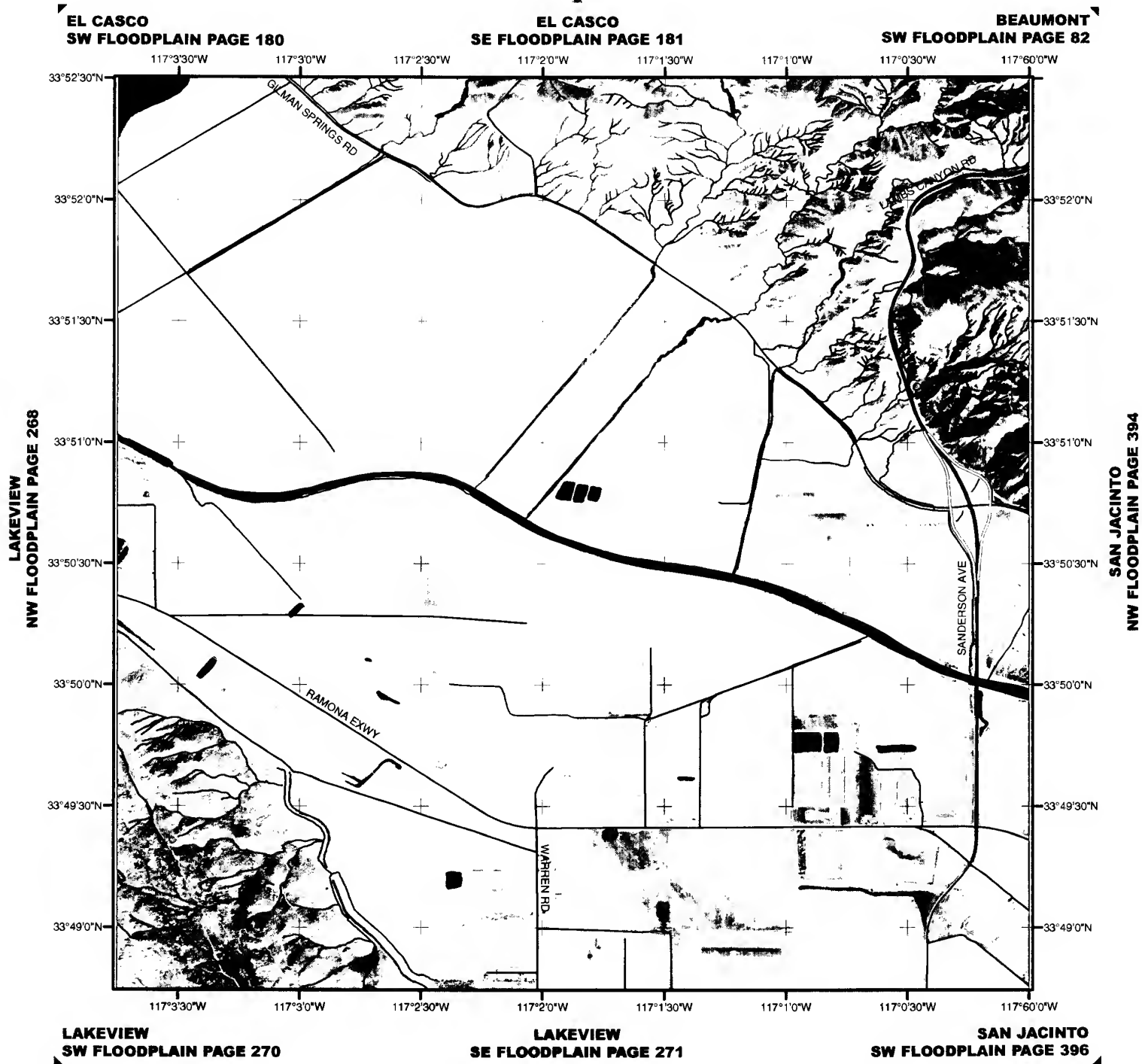




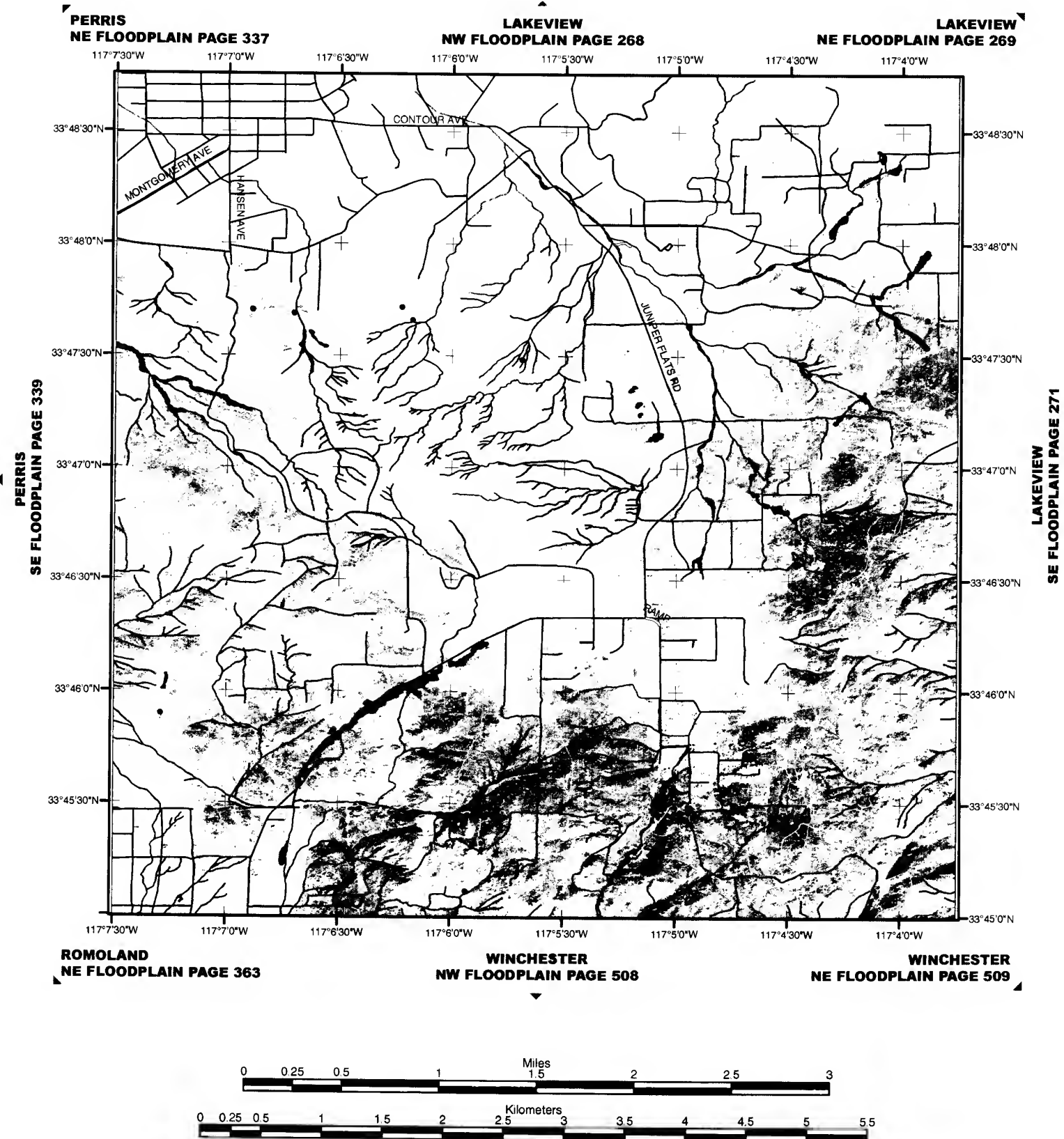
# Lakeview North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



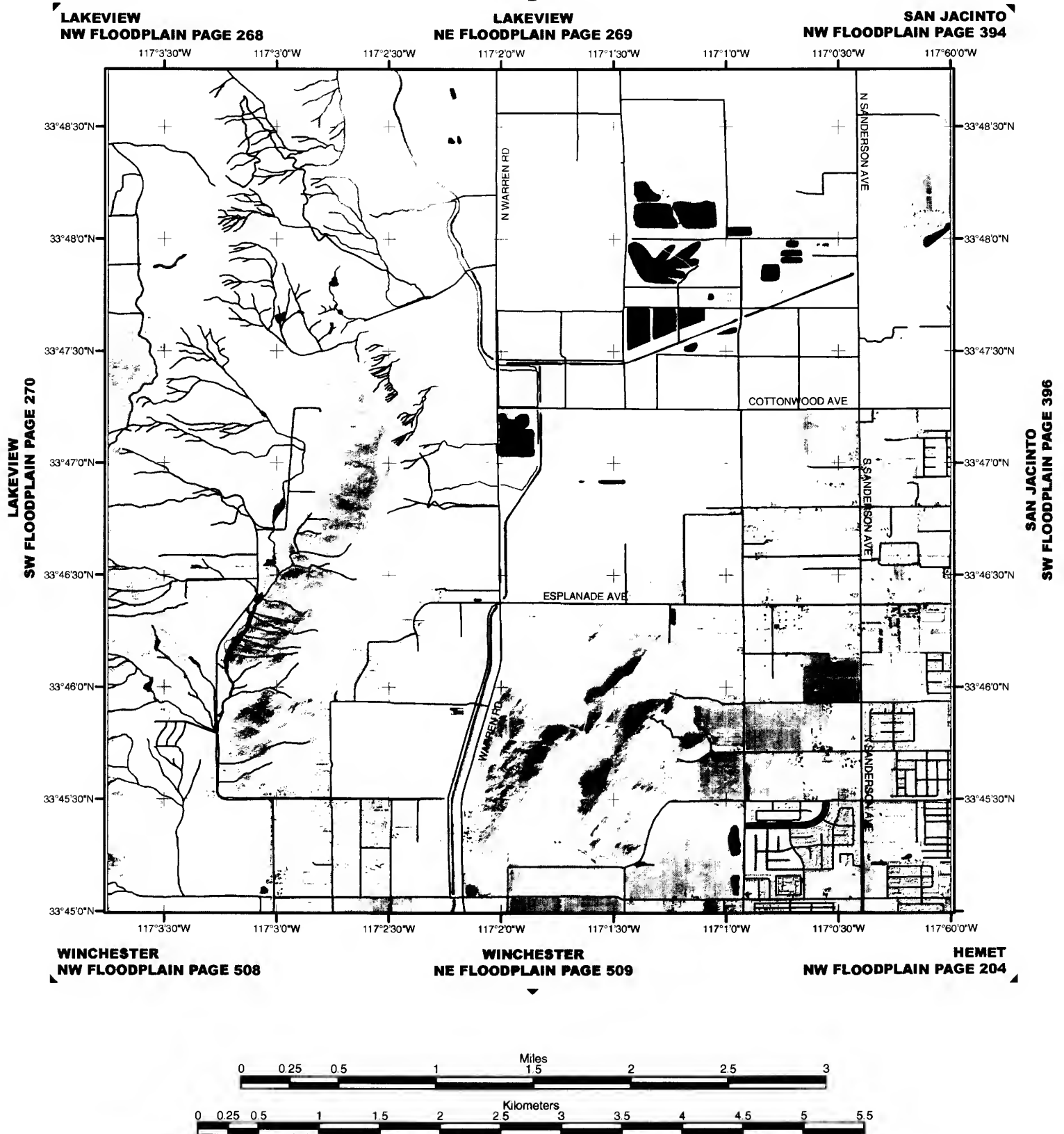
# Lakeview North East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



# Lakeview South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



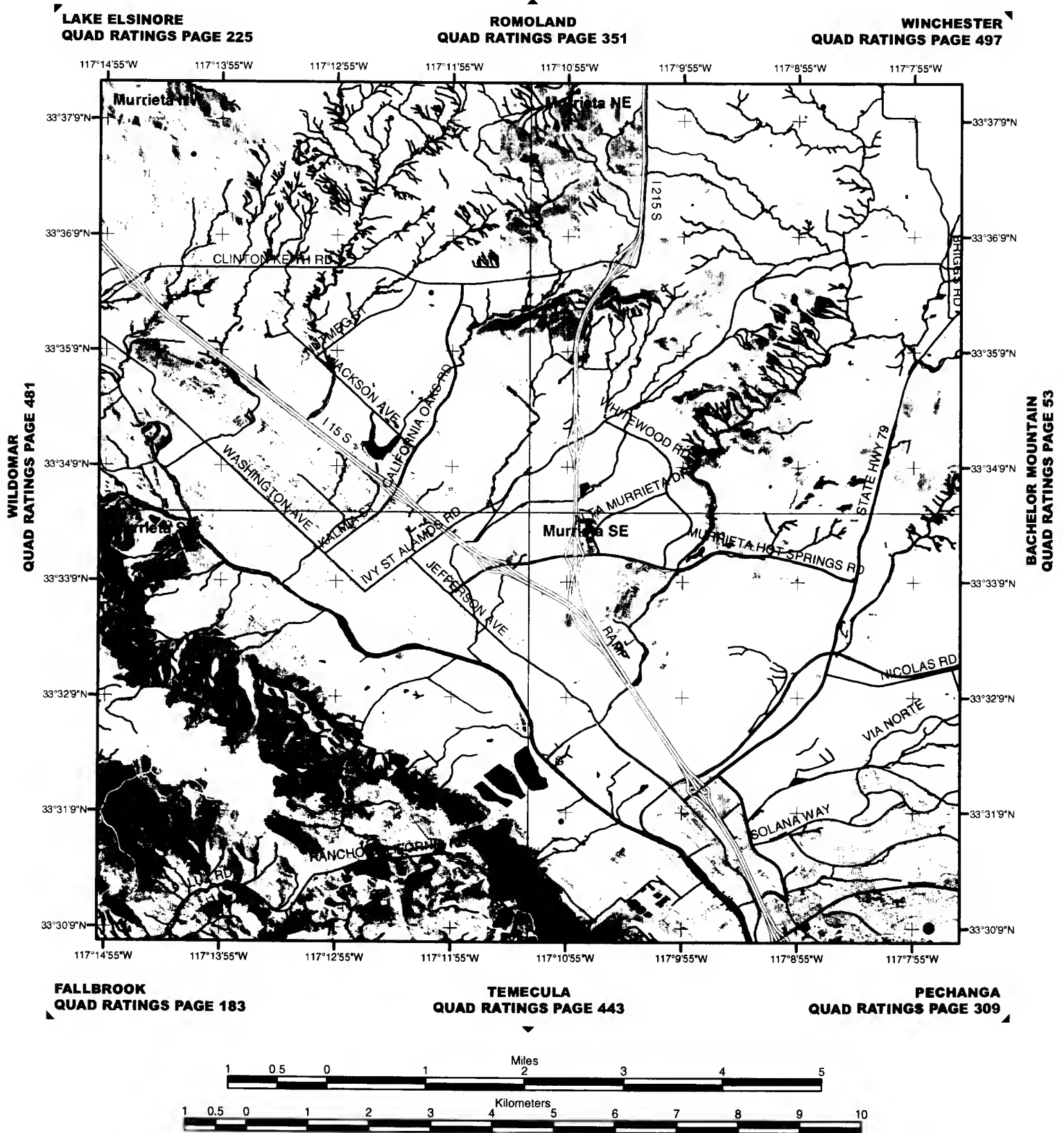
# Lakeview South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



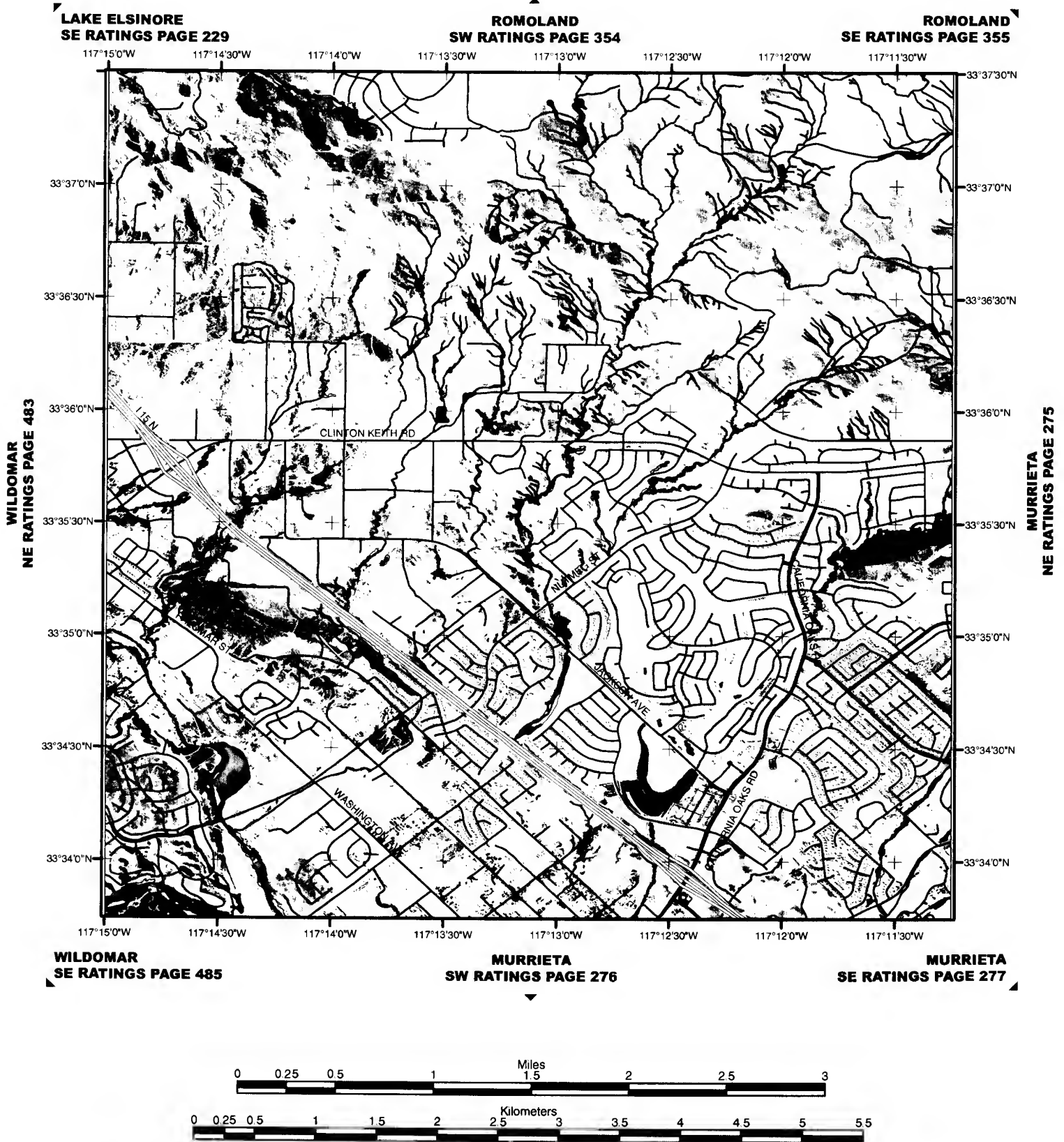


# Murrieta Quadrangle

## Regulatory Probability Ratings for Aquatic Resources

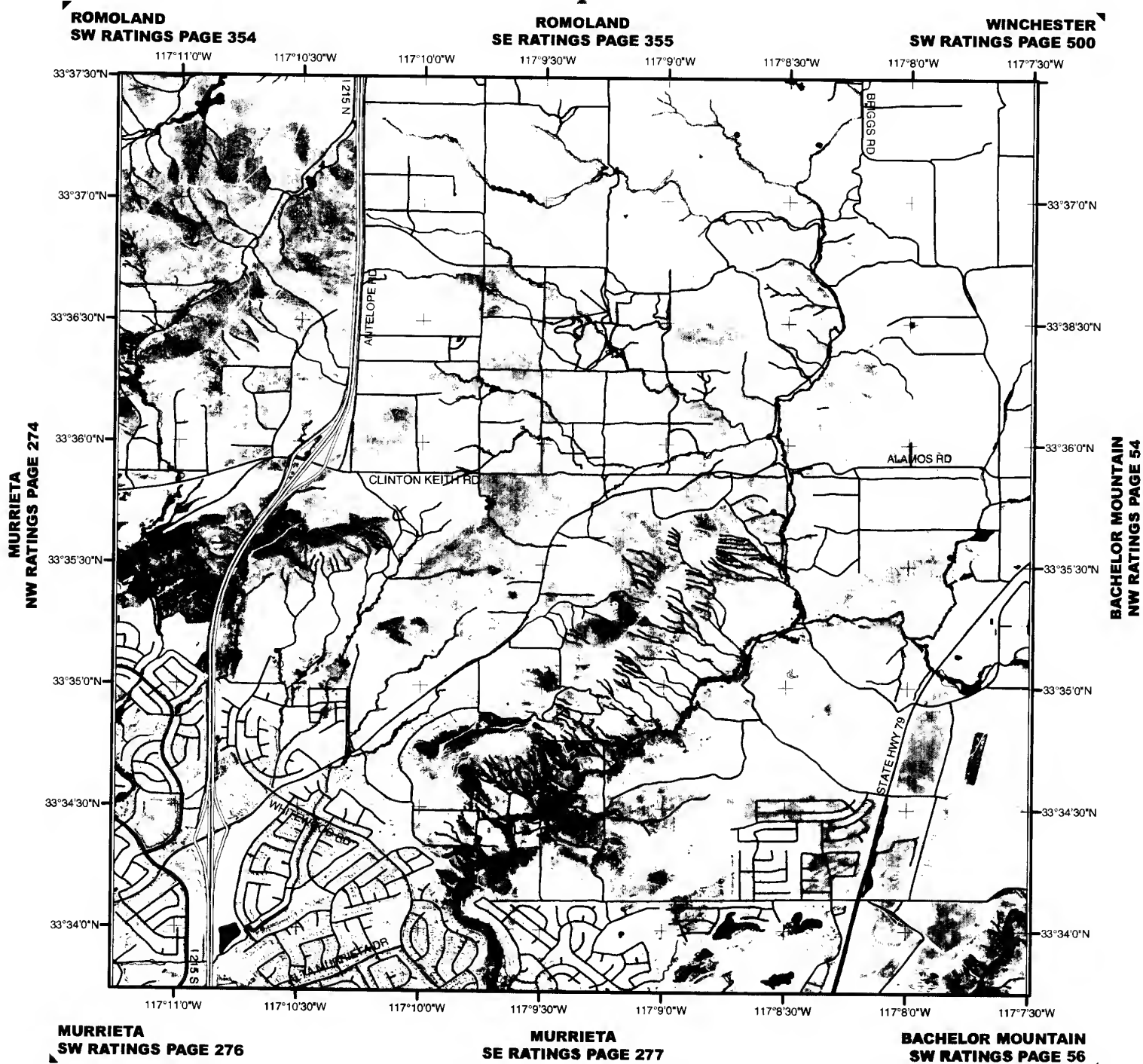


## Murrieta North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



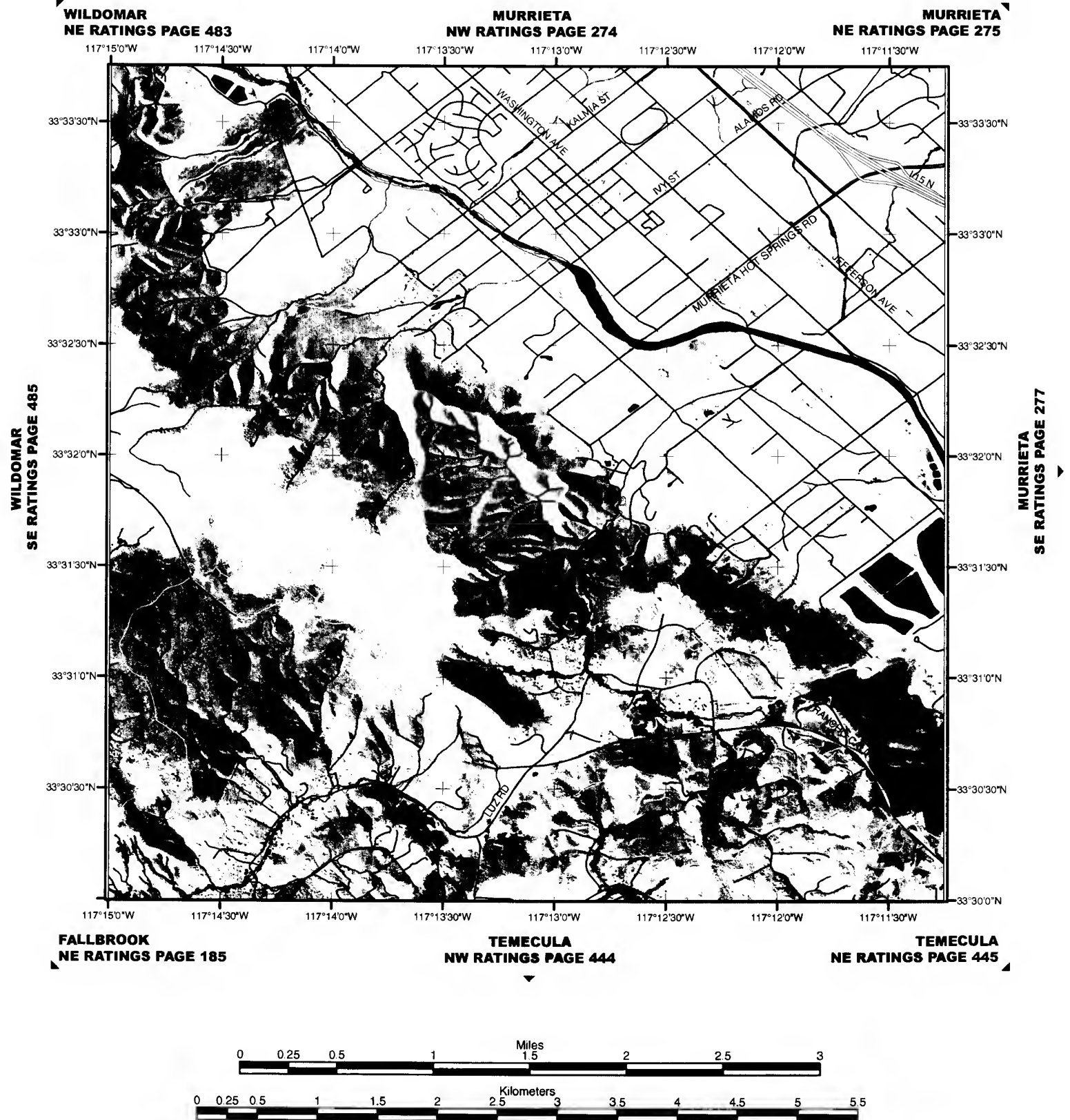


# Murrieta North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

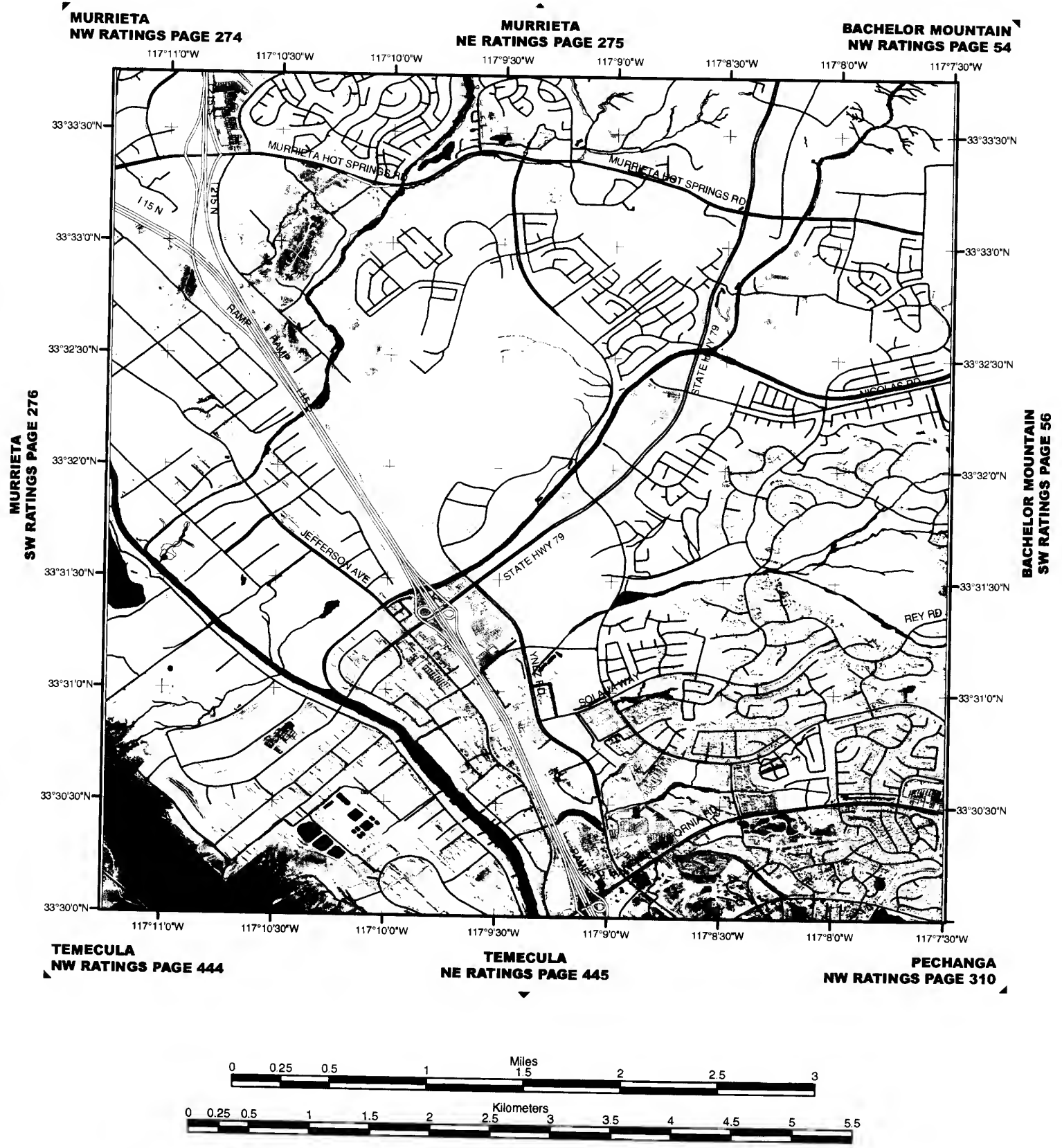




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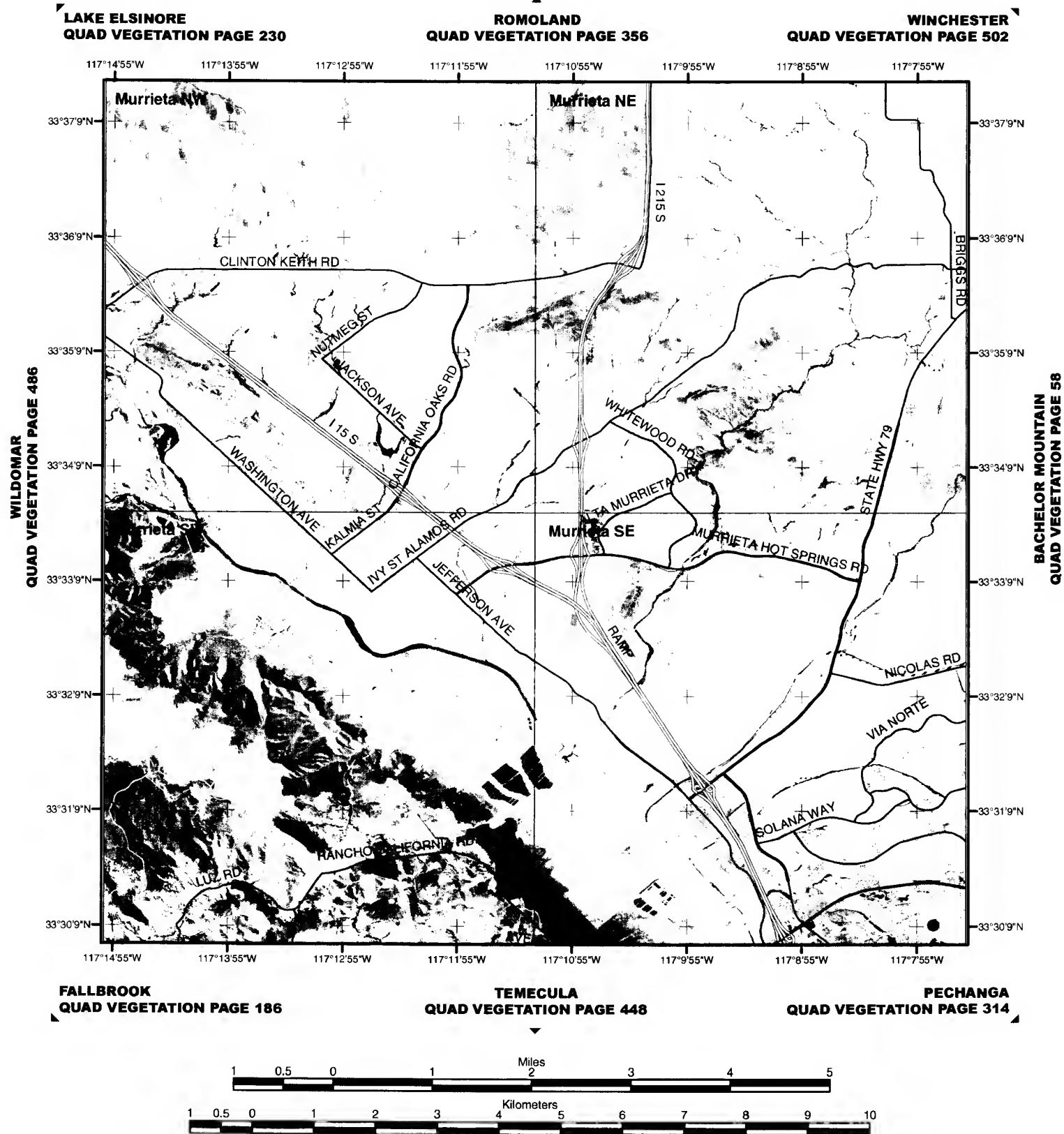


# Murrieta South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

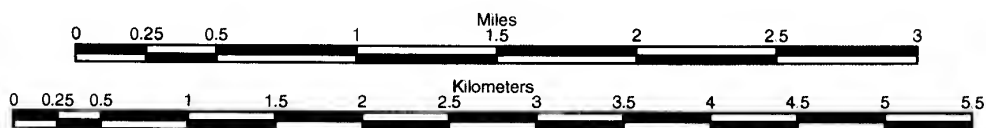


# Murrieta Quadrangle

## Vegetation Species Association Units for Aquatic Resources

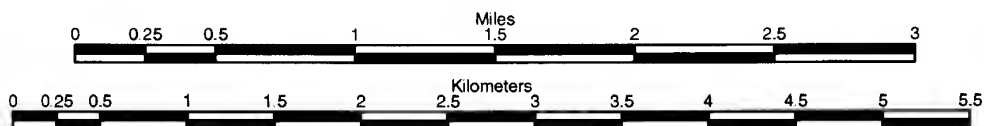
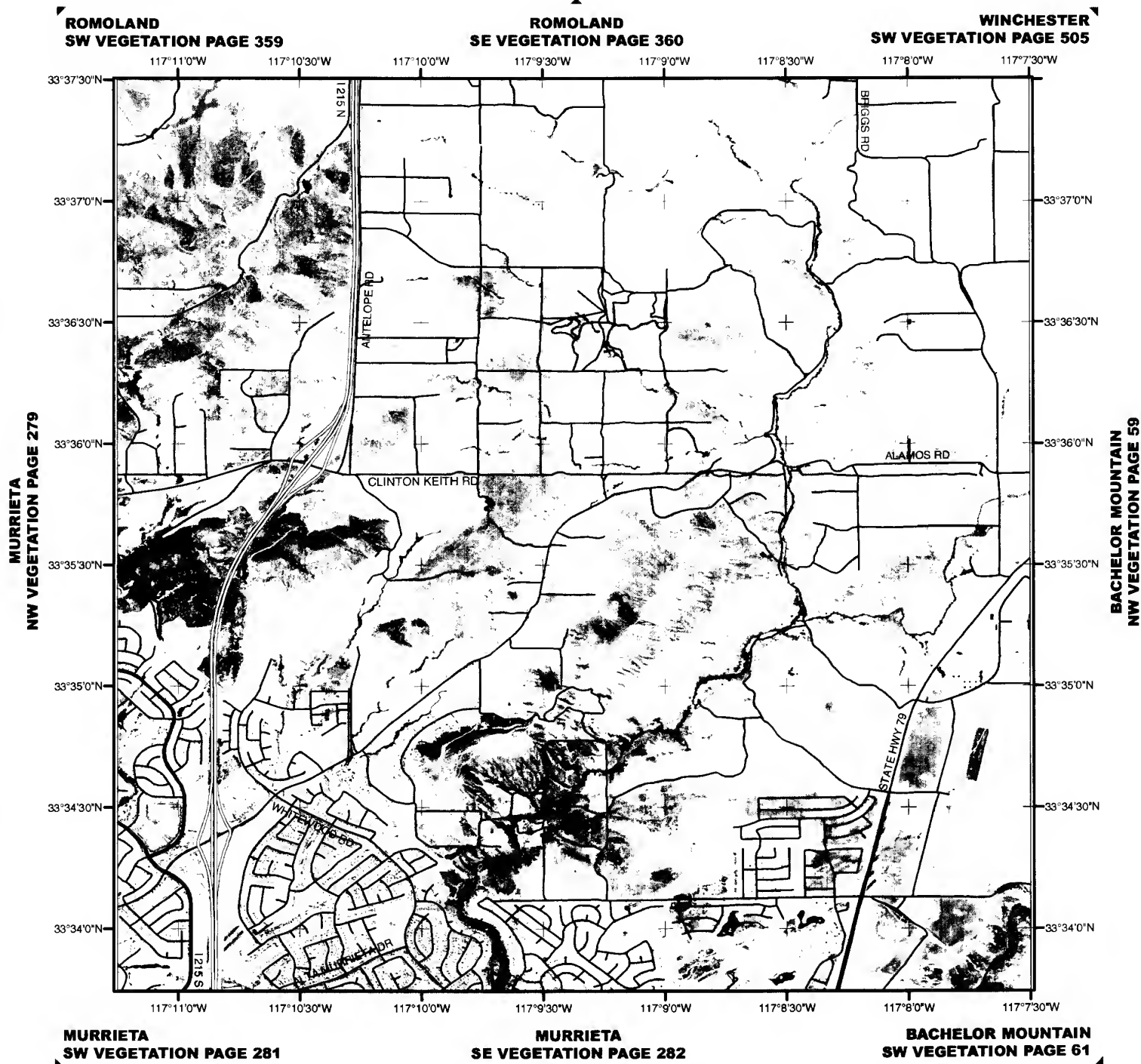


KE ELSINORE  
VEGETATION PAGE 234
ROMOLAND  
NW VEGETATION PAGE 357
ROMOLAND  
NE VEGETATION PAGE 358

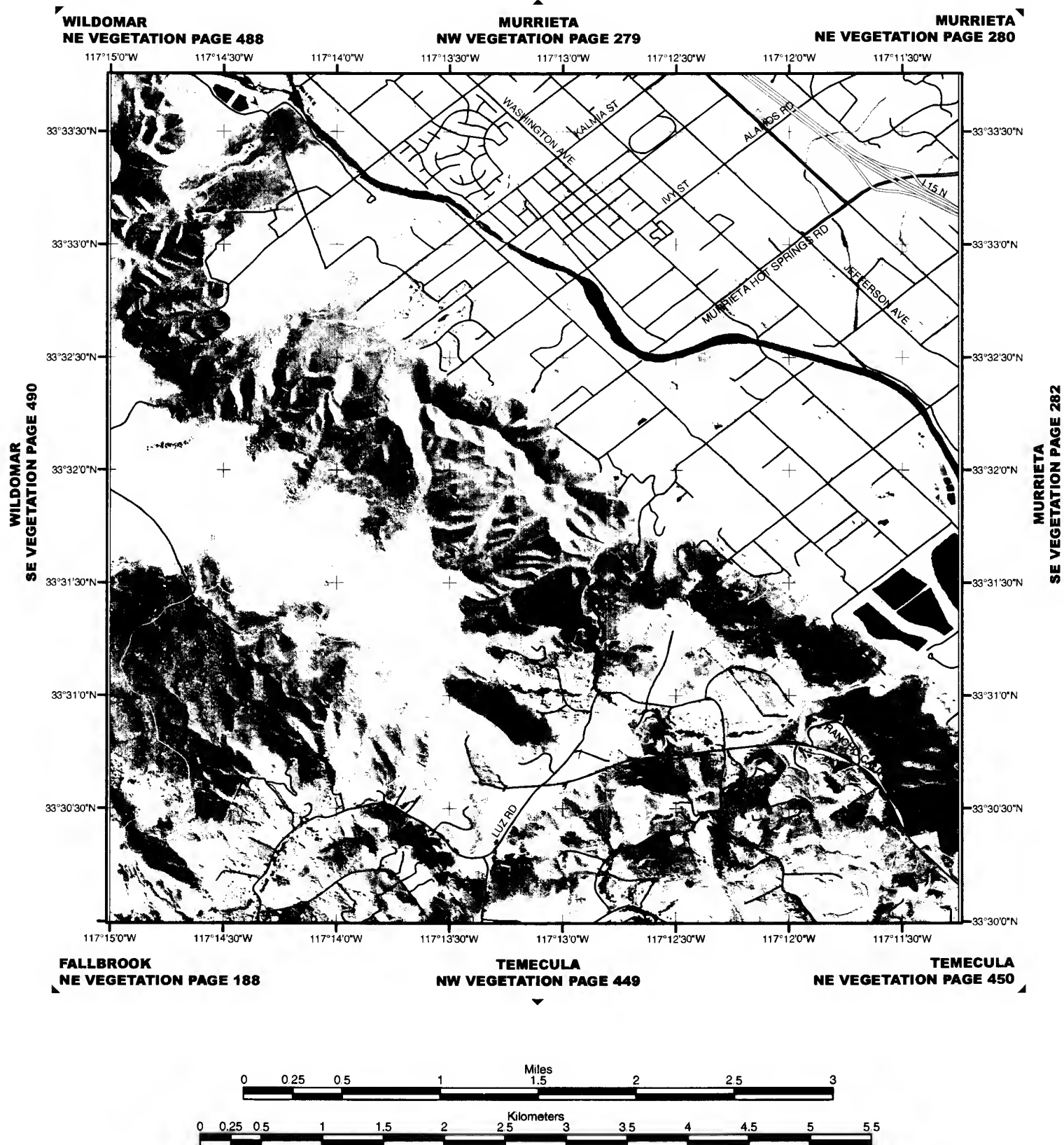


# Murrieta North East Quarter-Quadrangle

## Vegetation Species Association Units for Aquatic Resources

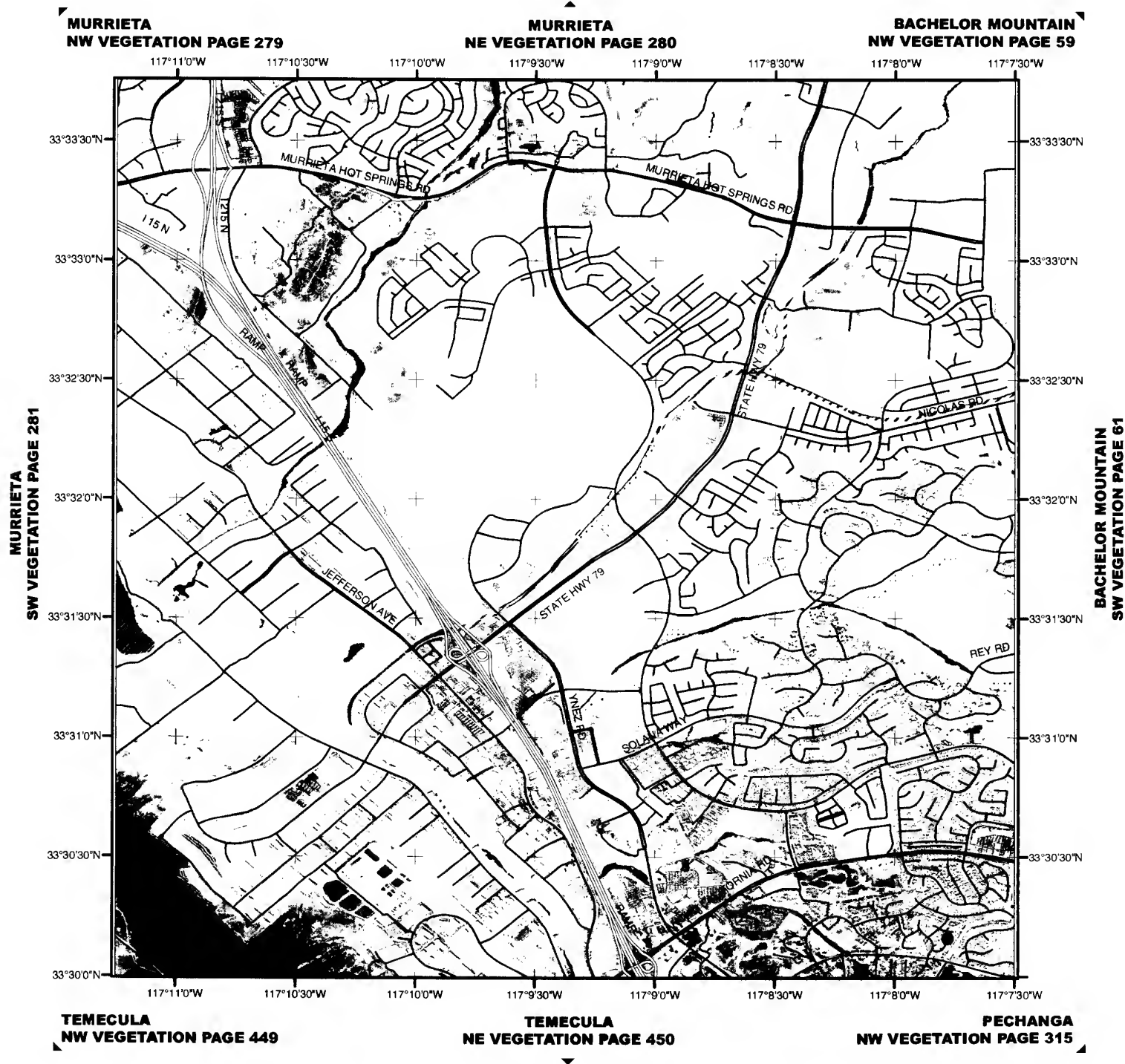


# Murrieta South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



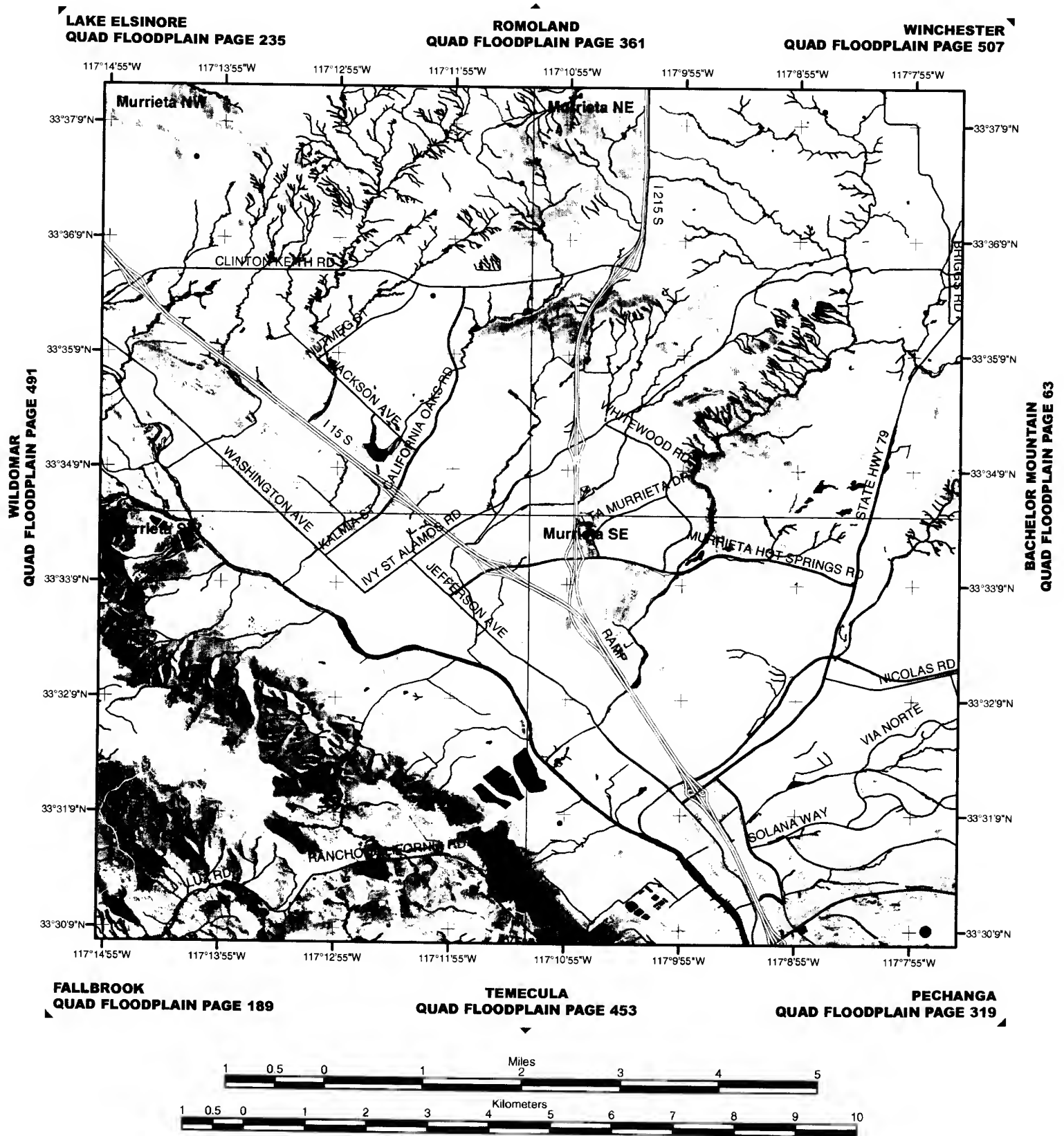


# Murrieta South East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



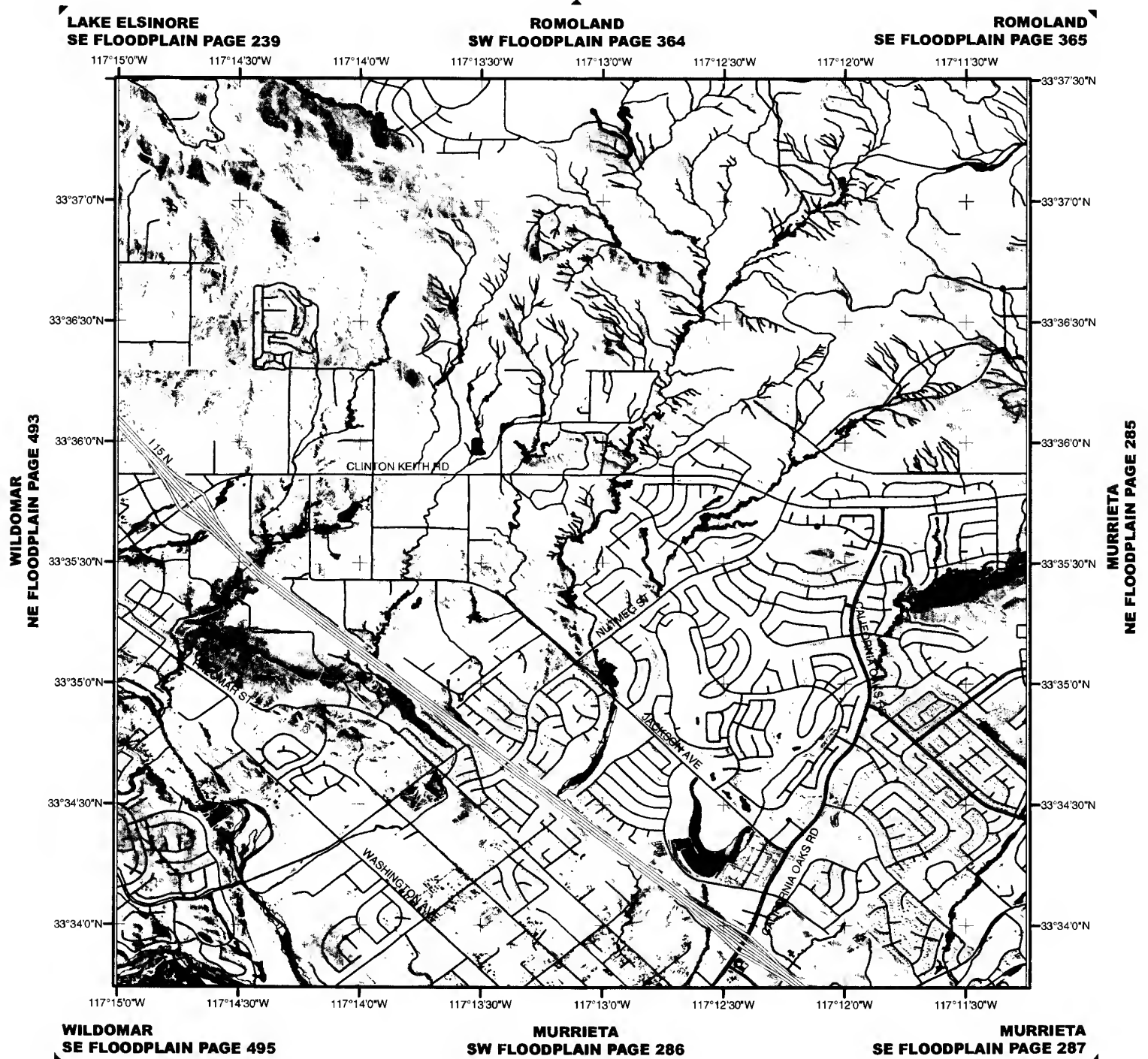
# Murrieta Quadrangle

## Hydrogeomorphic Floodplain Units for Aquatic Resources

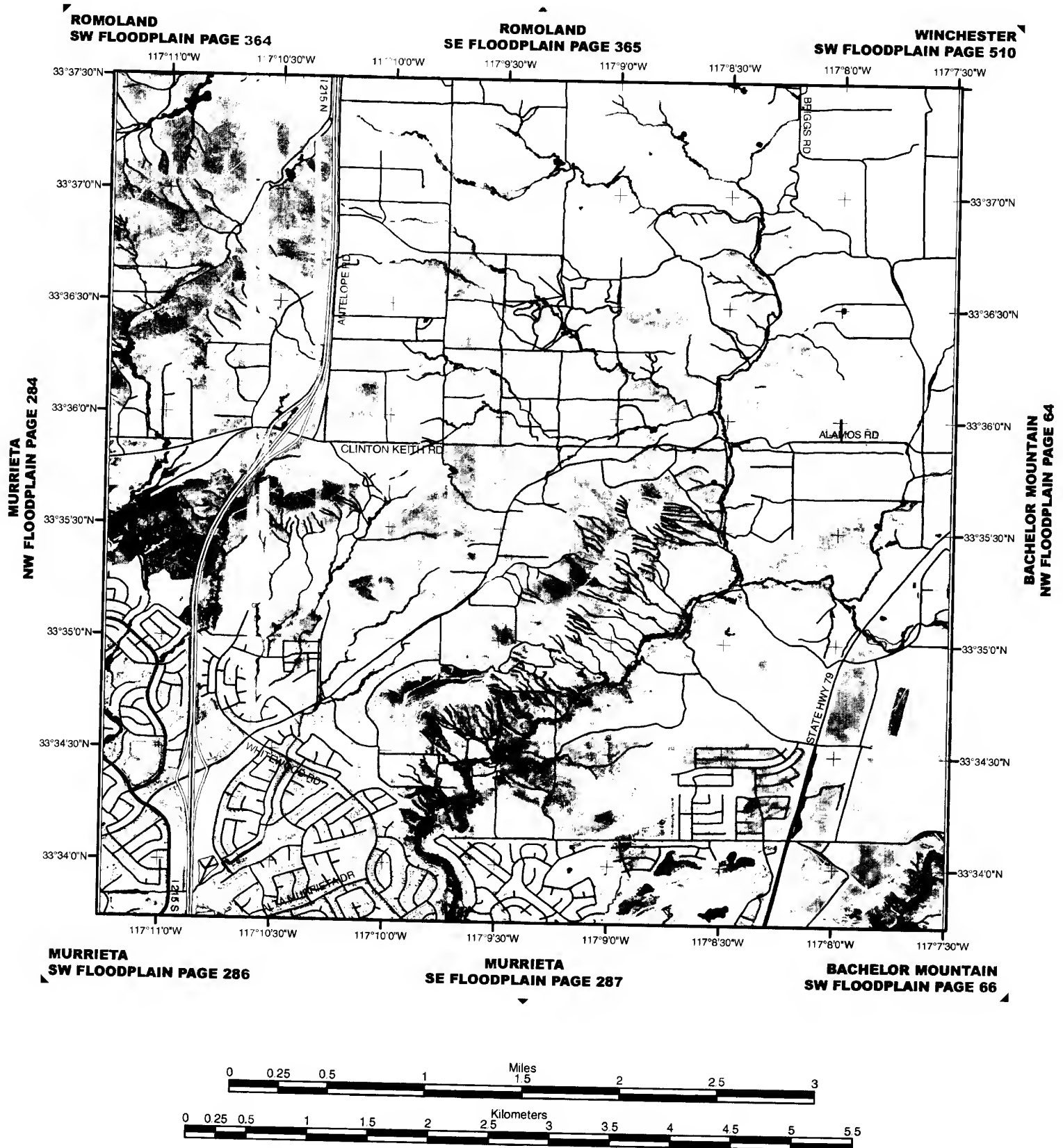




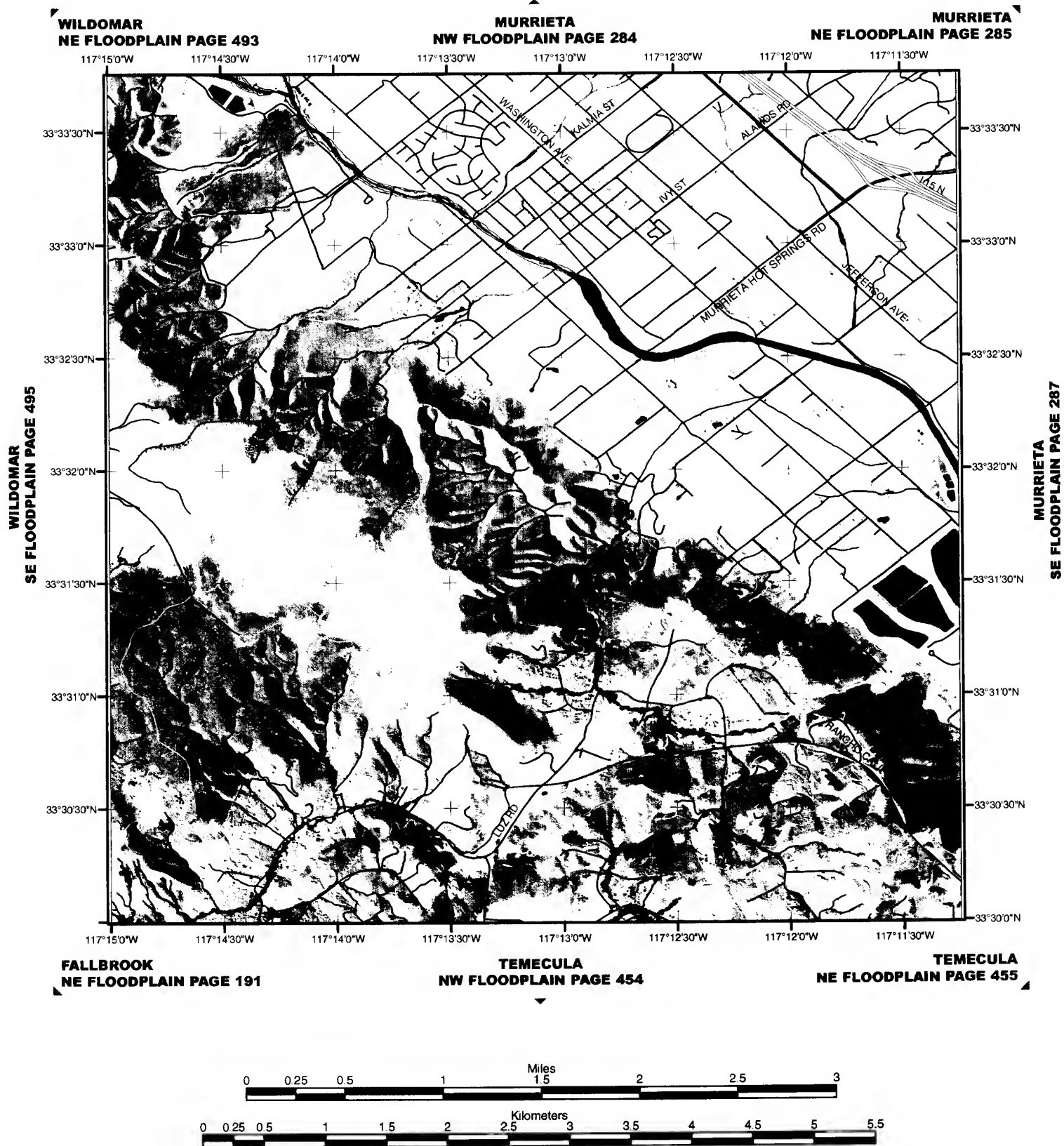
# Murrieta North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



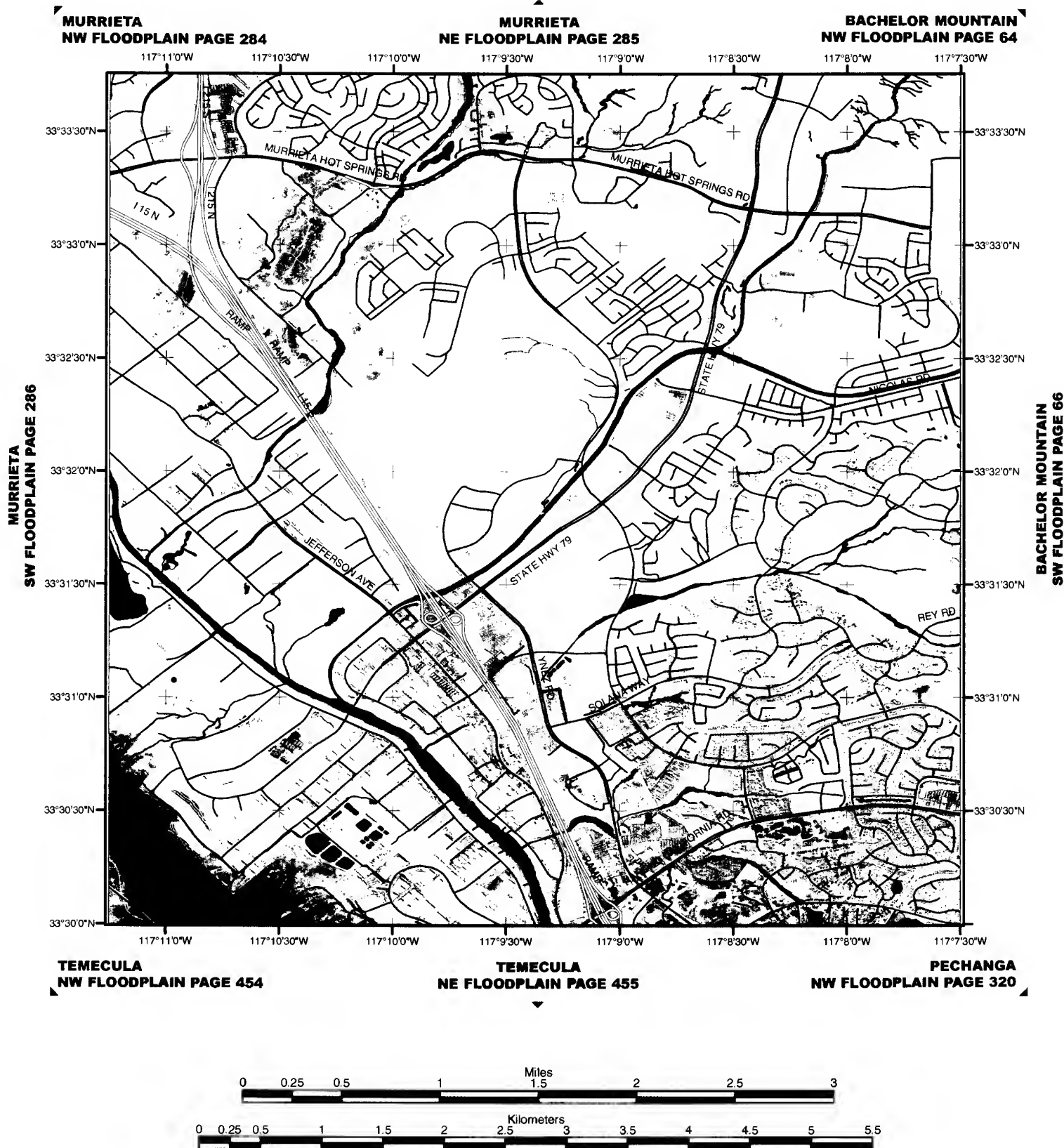
# Murrieta North East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



# Murrieta South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



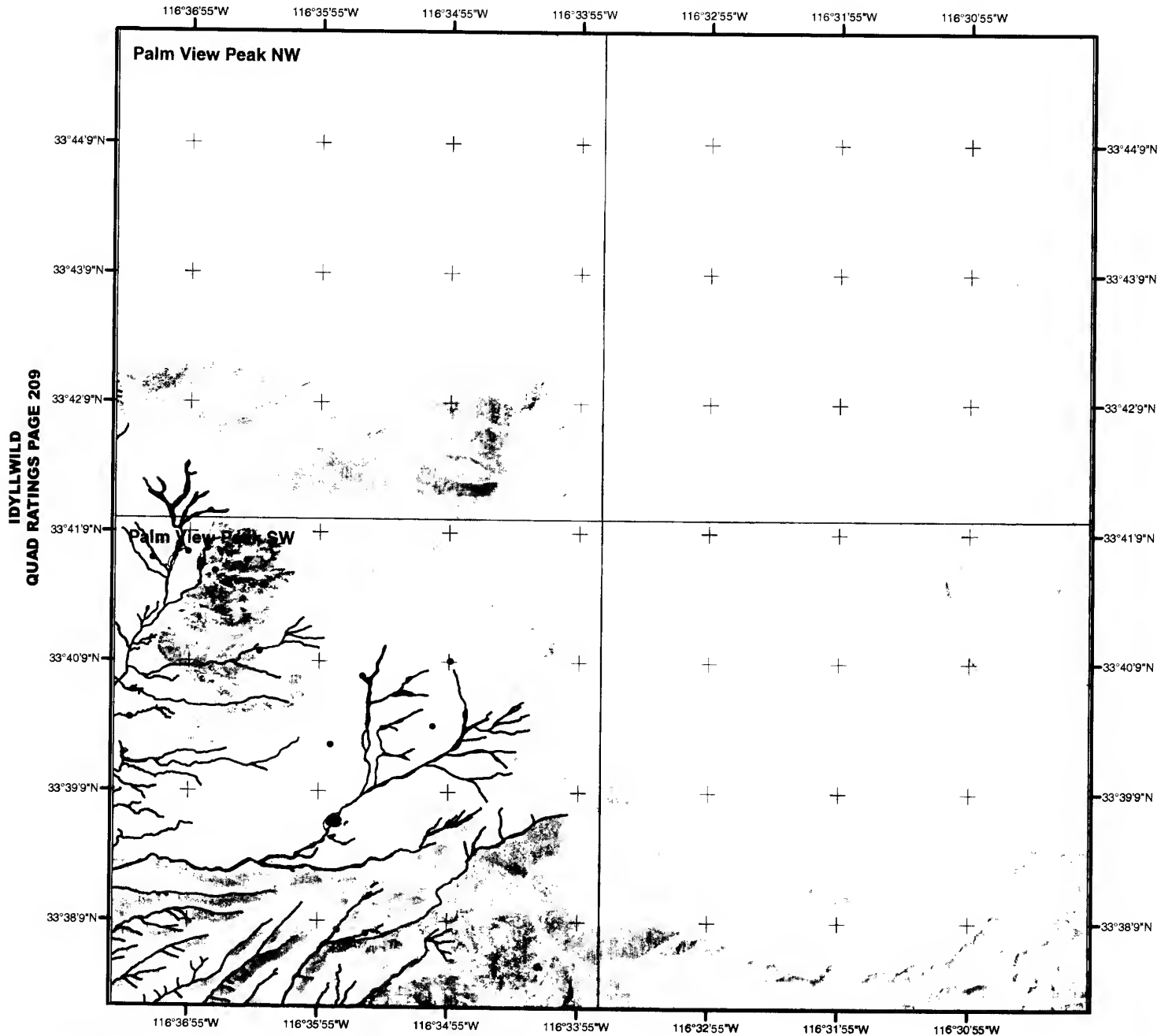
# Murrieta South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources





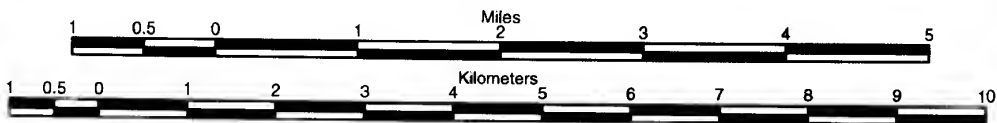
# Palm View Peak Quadrangle Regulatory Probability Ratings for Aquatic Resources

**SAN JACINTO PEAK  
QUAD RATINGS PAGE 399**

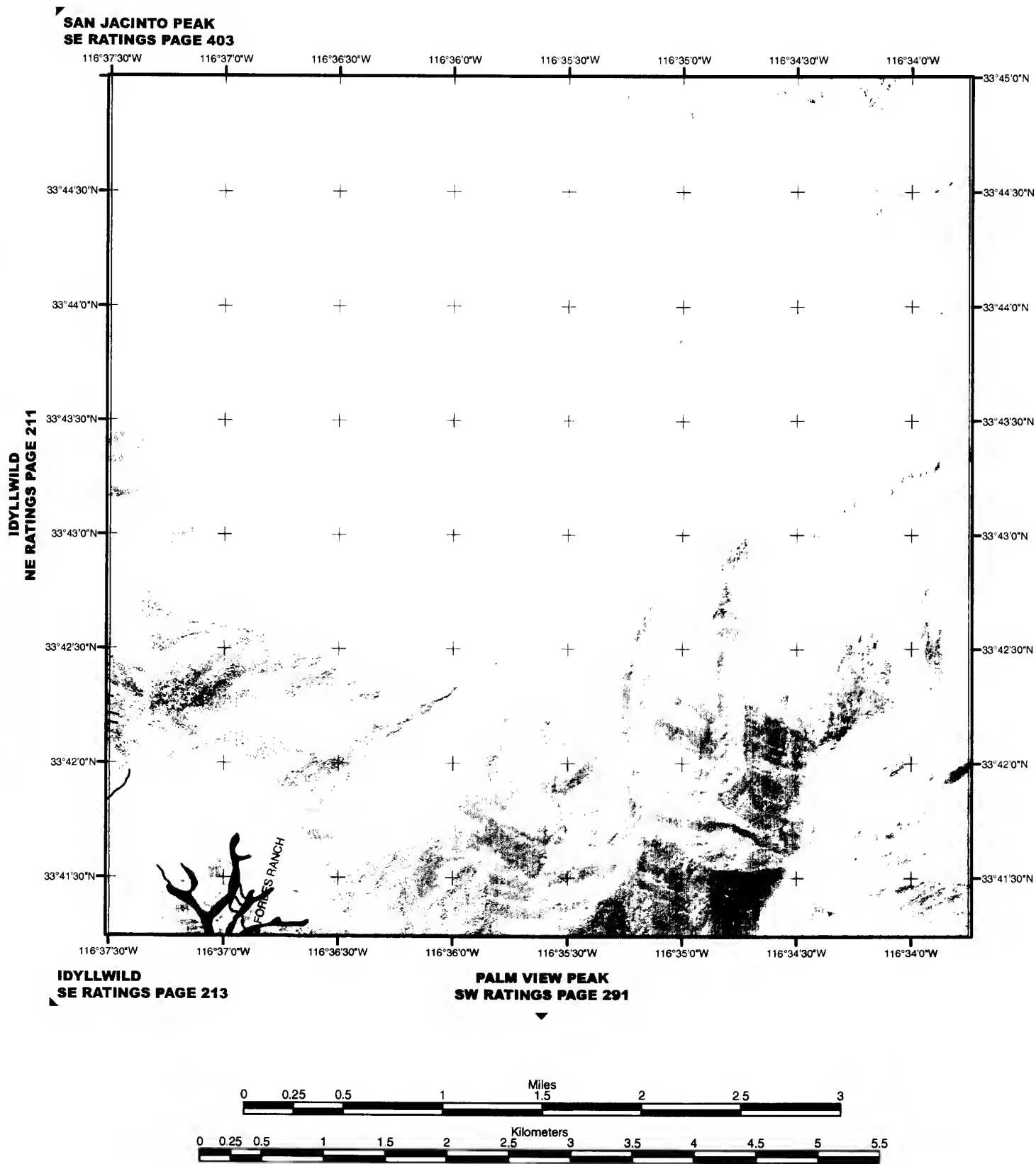


**ANZA  
QUAD RATINGS PAGE 37**

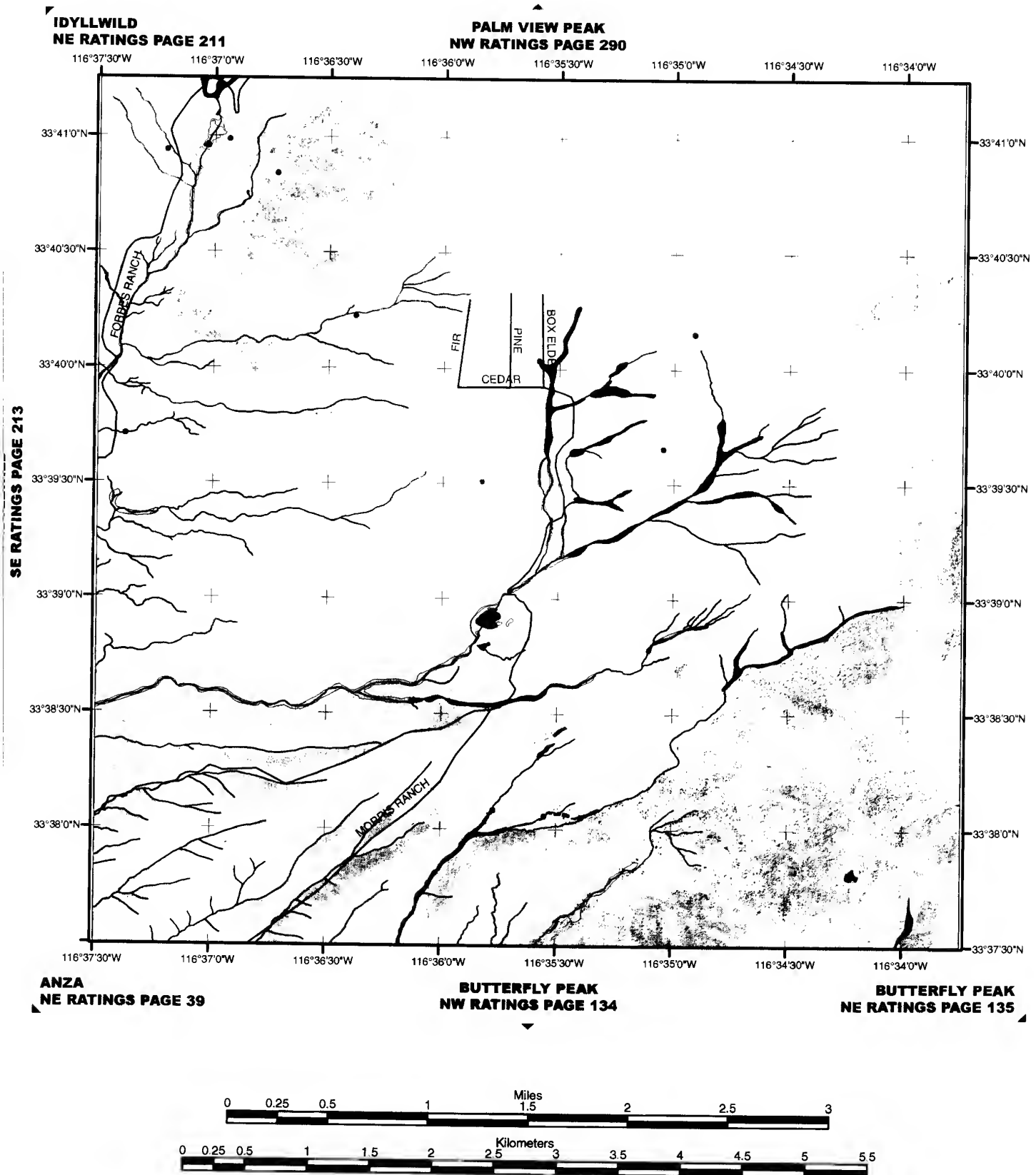
**BUTTERFLY PEAK  
QUAD RATINGS PAGE 133**



# Palm View Peak North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



# Palm View Peak South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

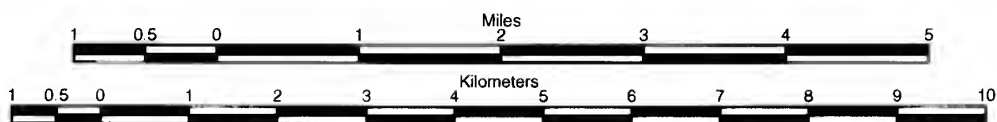
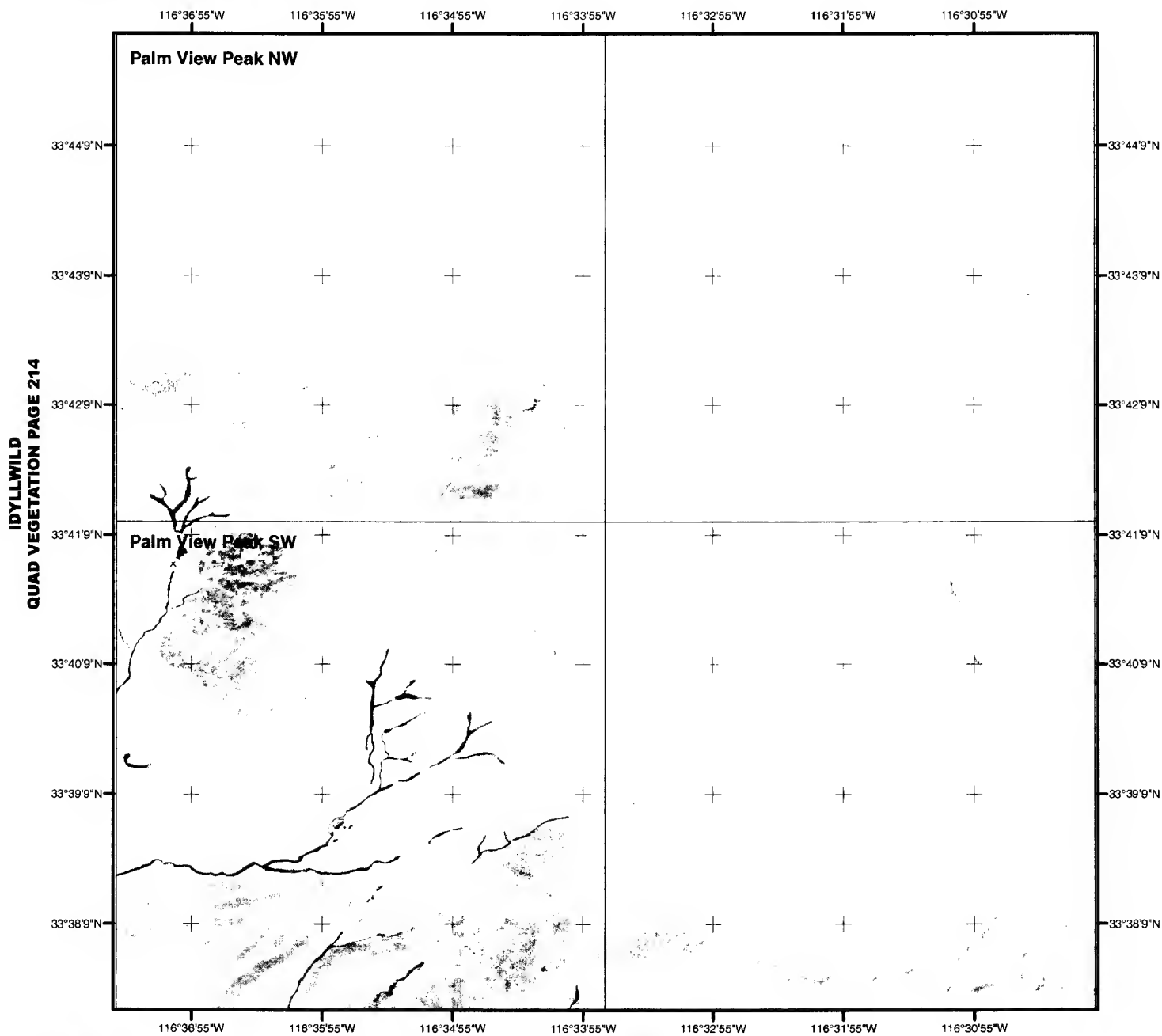




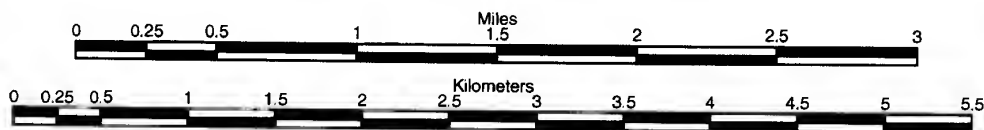
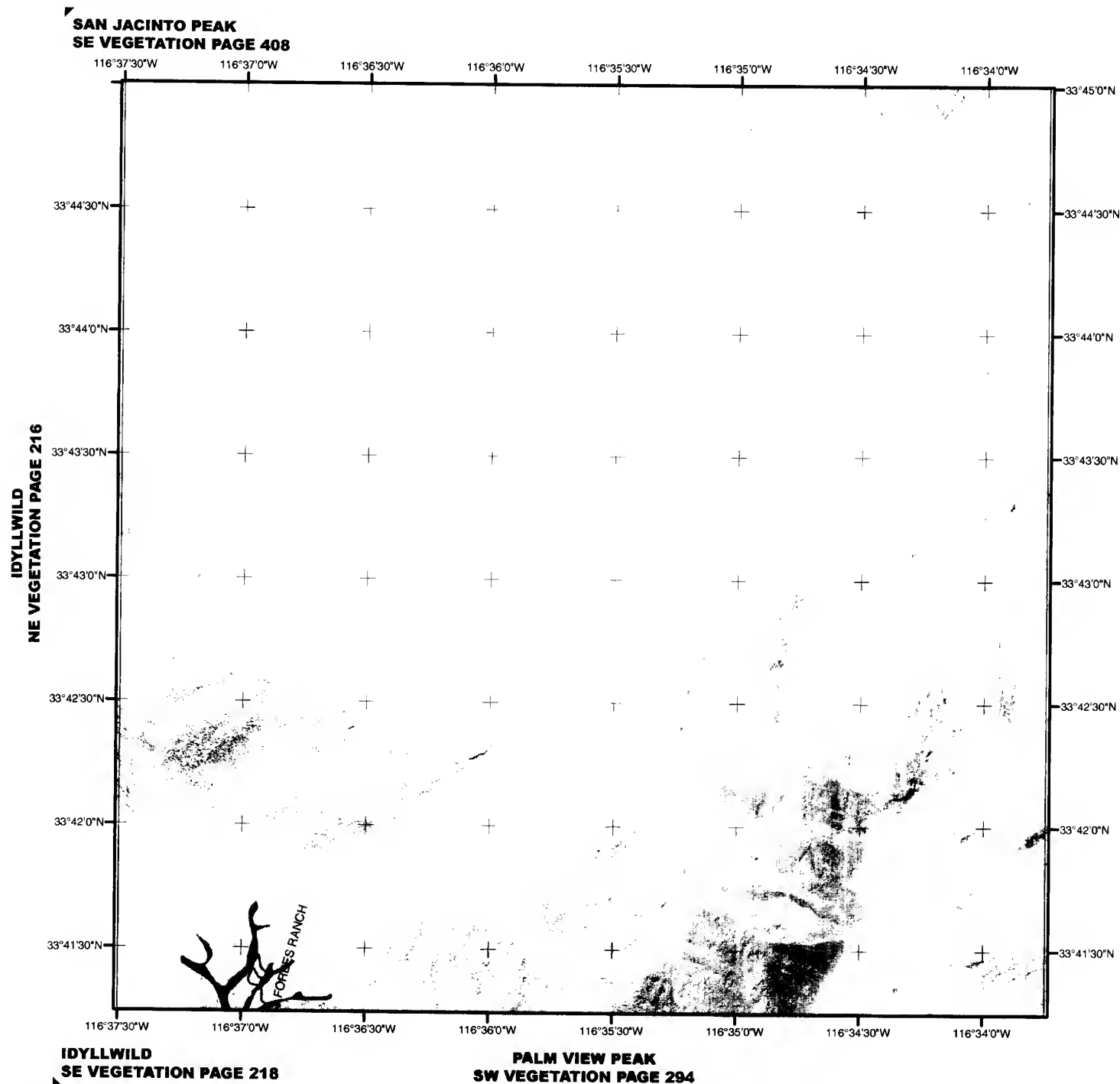
# Palm View Peak Quadrangle

## Vegetation Species Association Units for Aquatic Resources

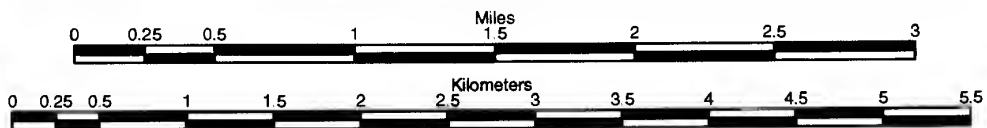
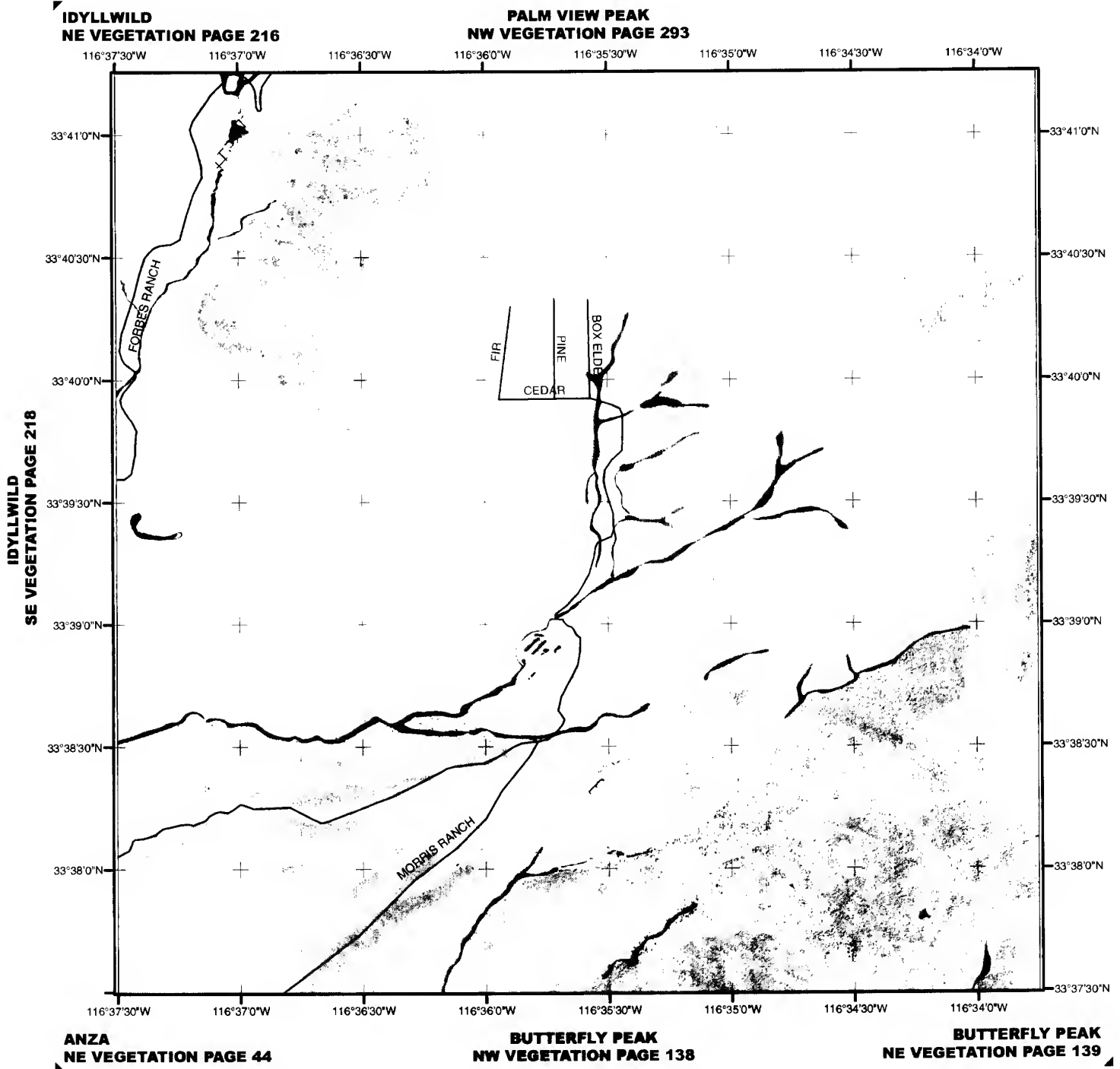
**SAN JACINTO PEAK**  
**QUAD VEGETATION PAGE 404**



# Palm View Peak North West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



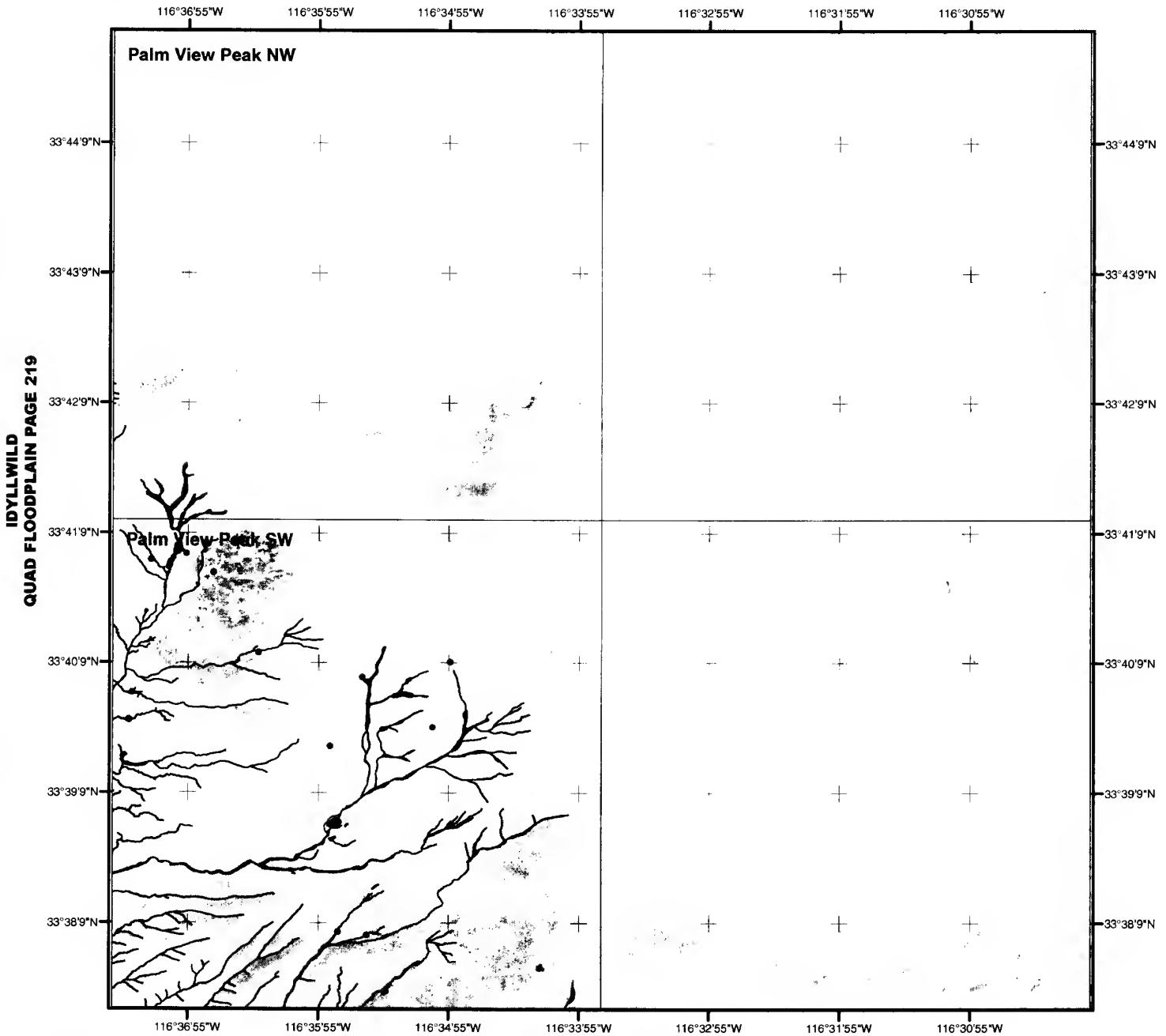
# Palm View Peak South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



# Palm View Peak Quadrangle

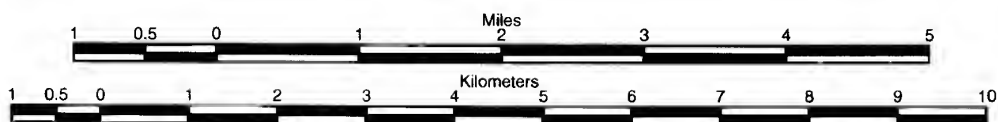
## Hydrogeomorphic Floodplain Units for Aquatic Resources

**SAN JACINTO PEAK**  
**QUAD FLOODPLAIN PAGE 409**

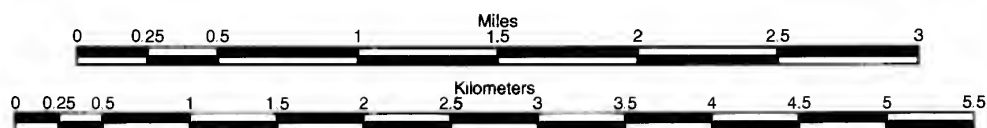
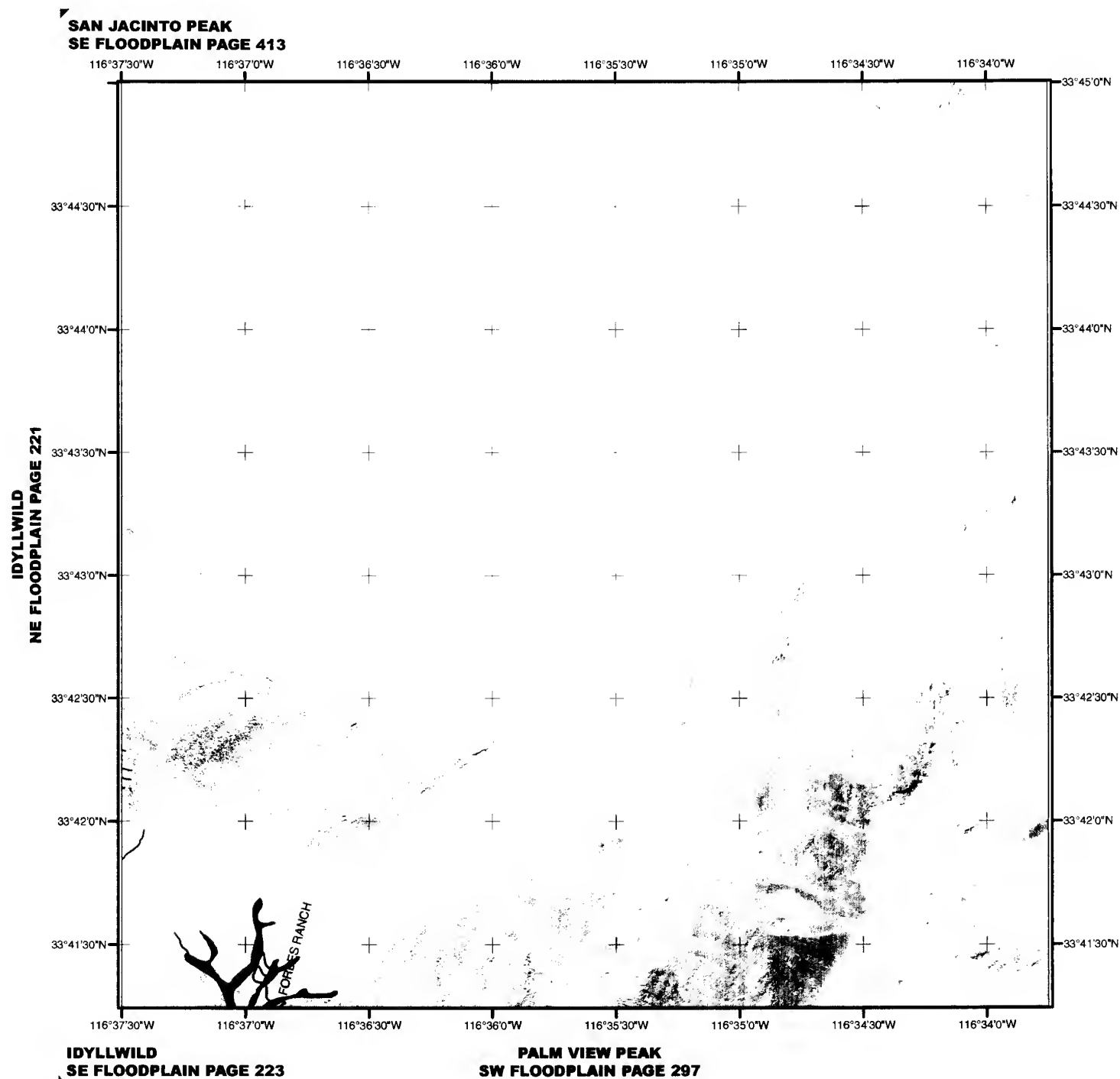


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**QUAD FLOODPLAIN PAGE 47**

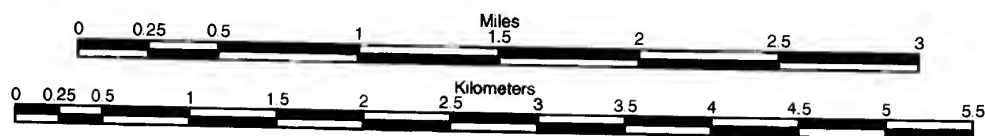
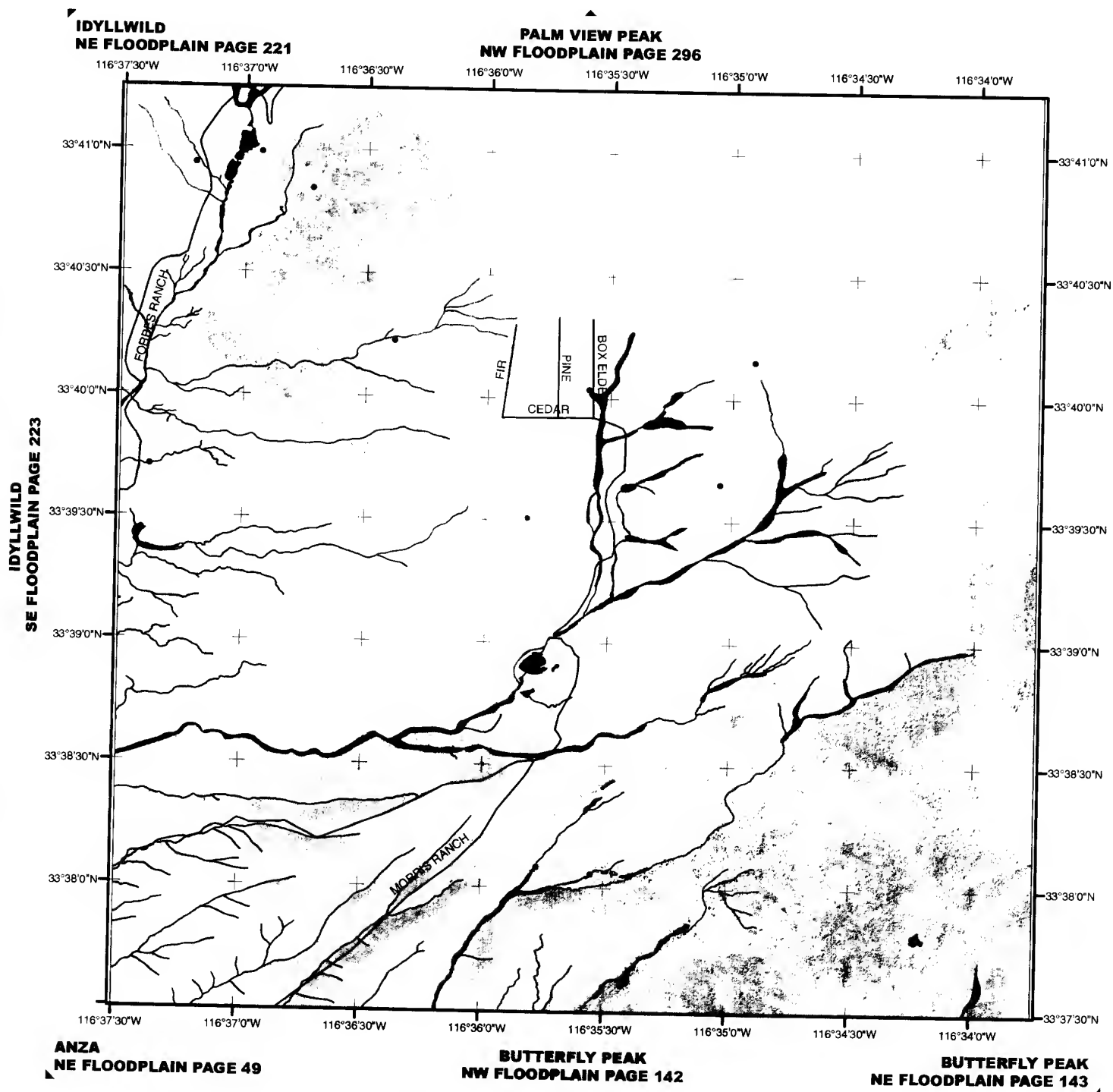
**BUTTERFLY PEAK**  
**QUAD FLOODPLAIN PAGE 141**



# Palm View Peak North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

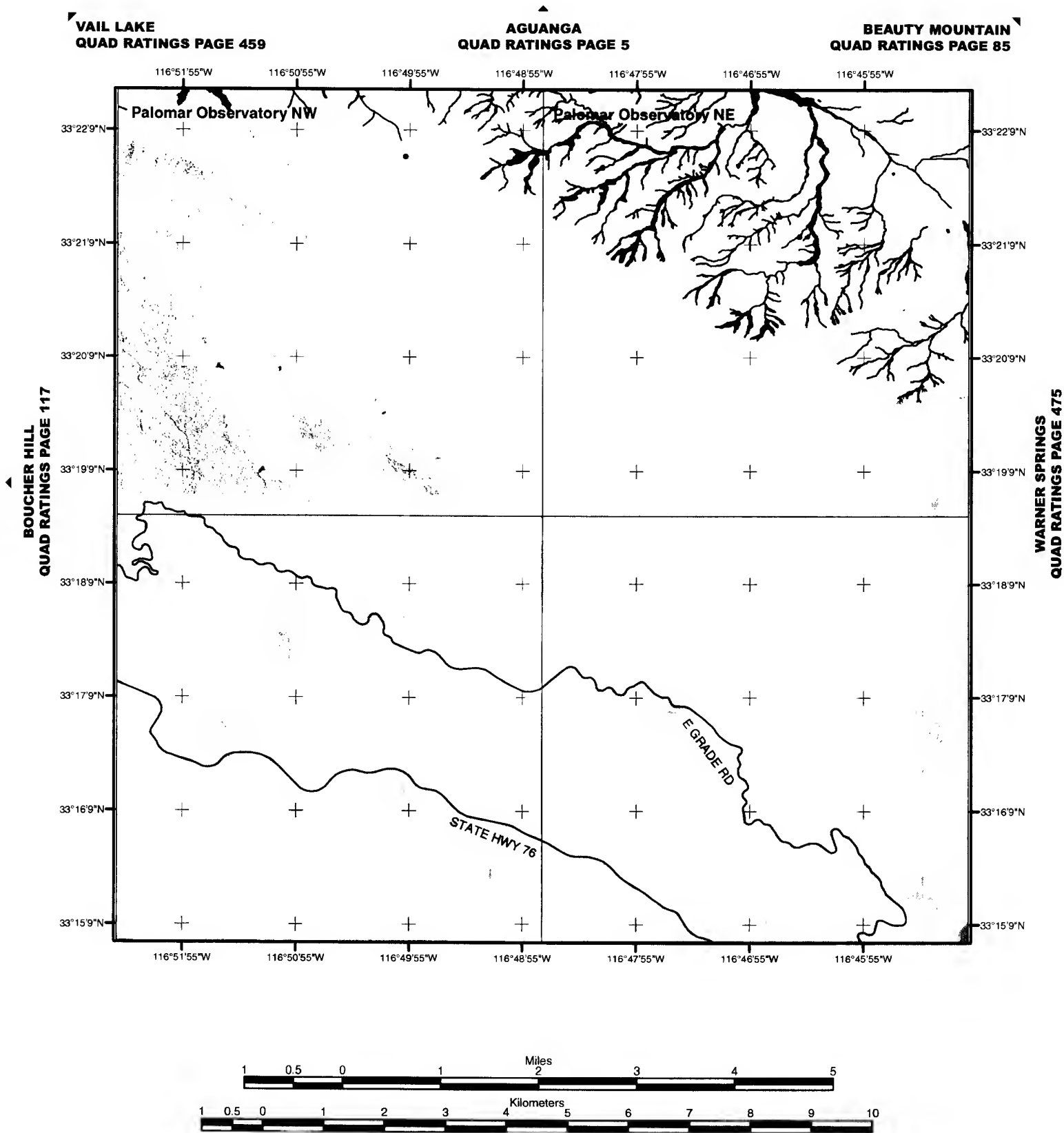


# Palm View Peak South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



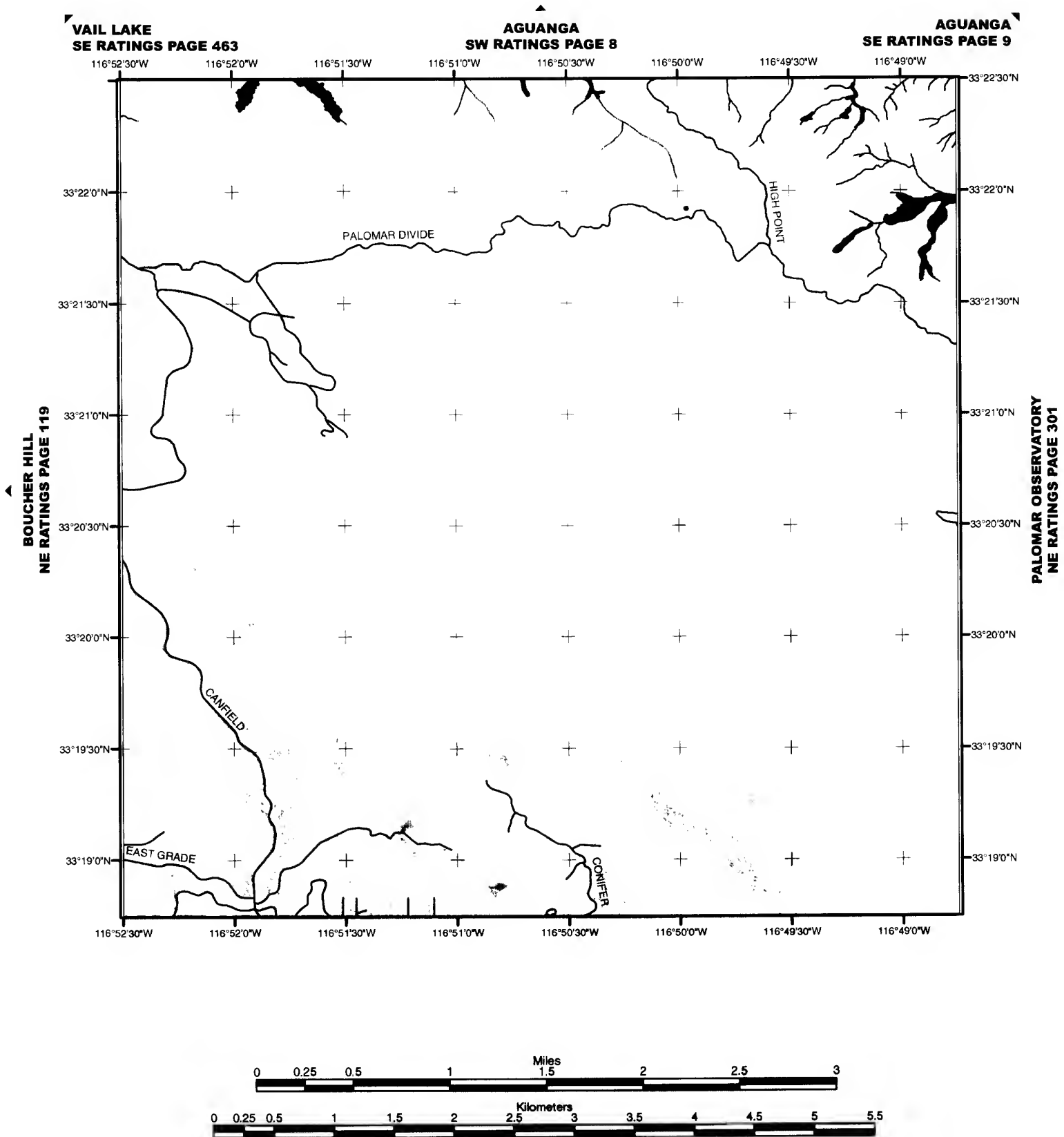


# Palomar Observatory Quadrangle Regulatory Probability Ratings for Aquatic Resources

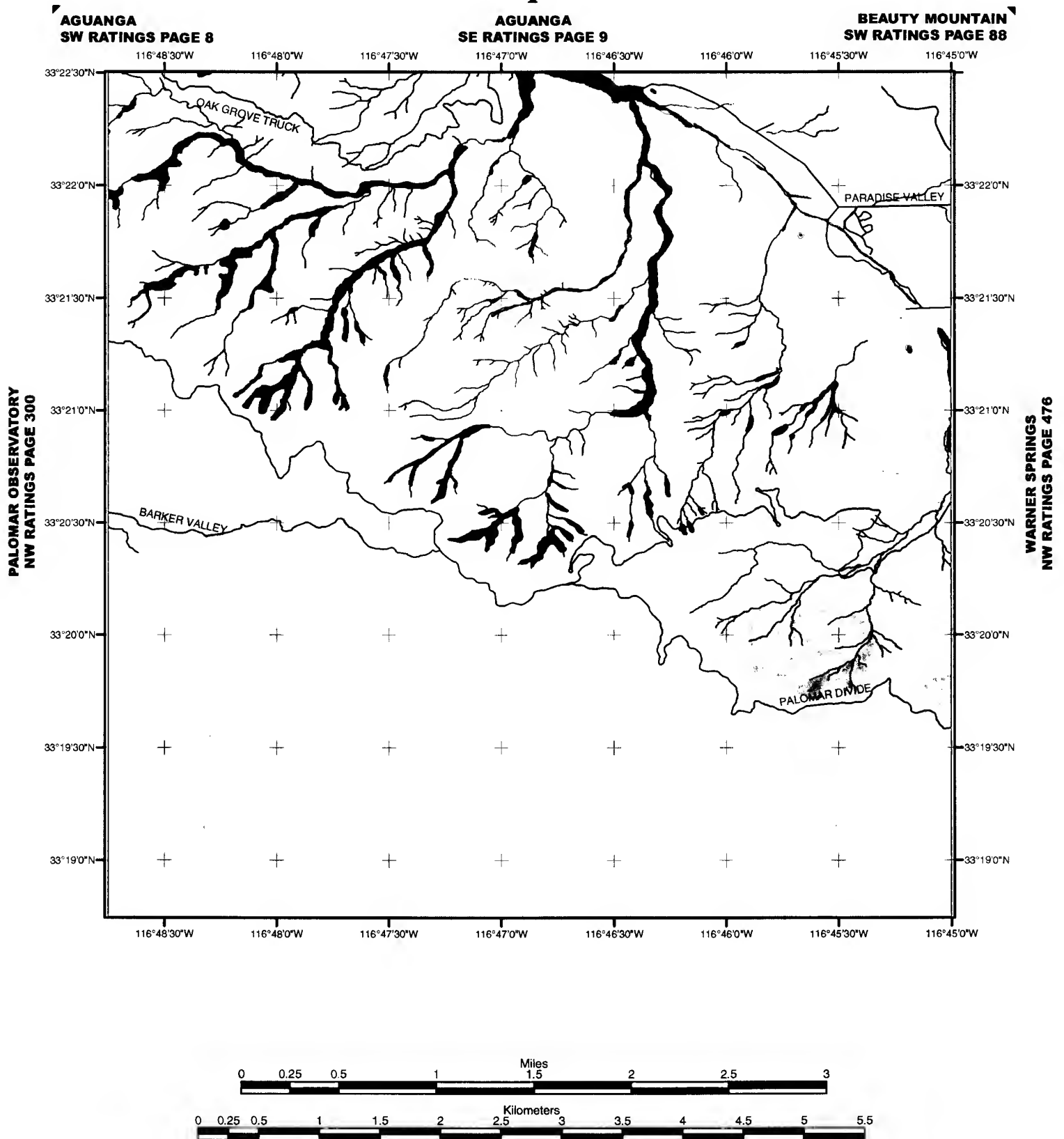




# Palomar Observatory North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

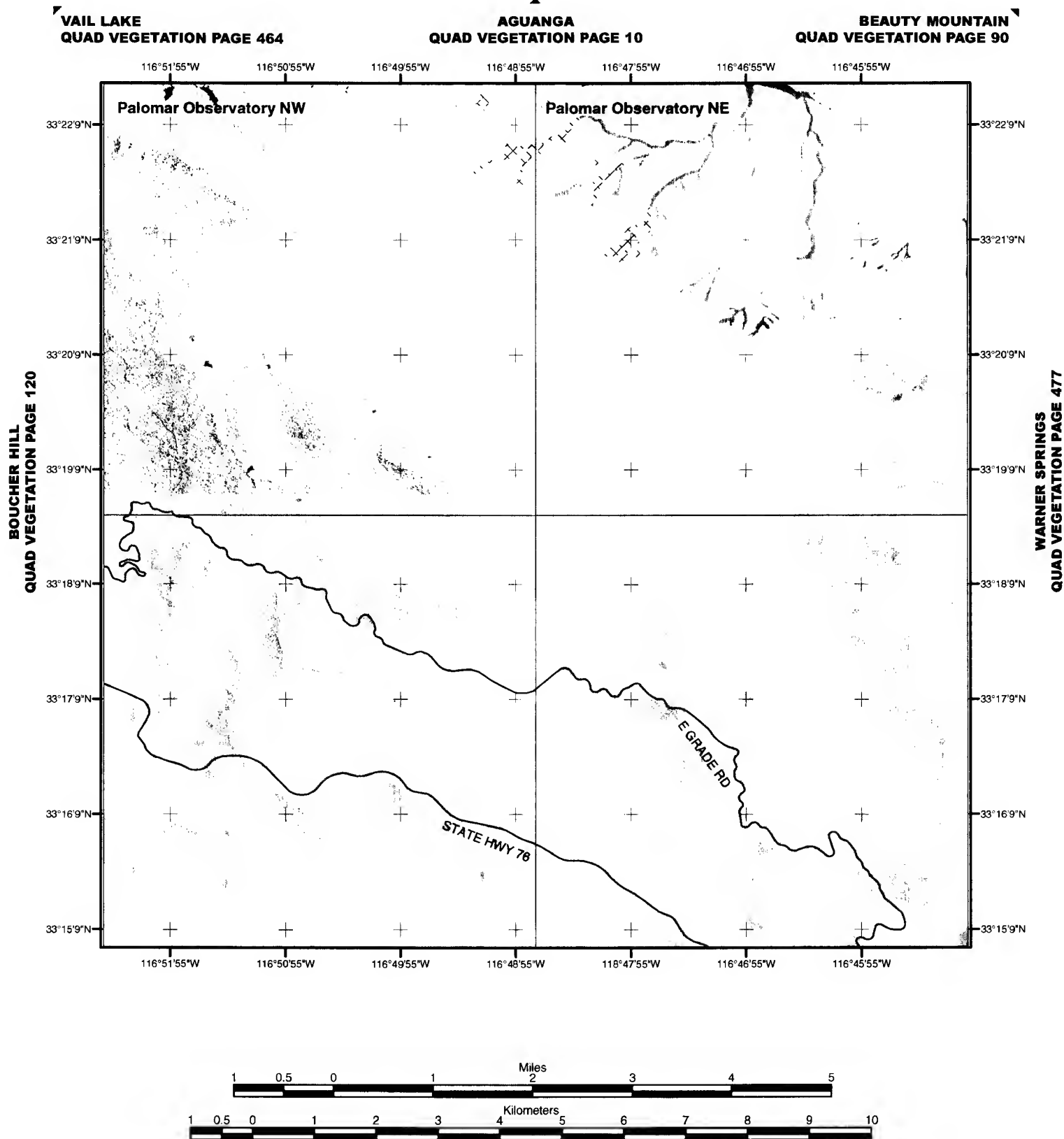


# Palomar Observatory North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

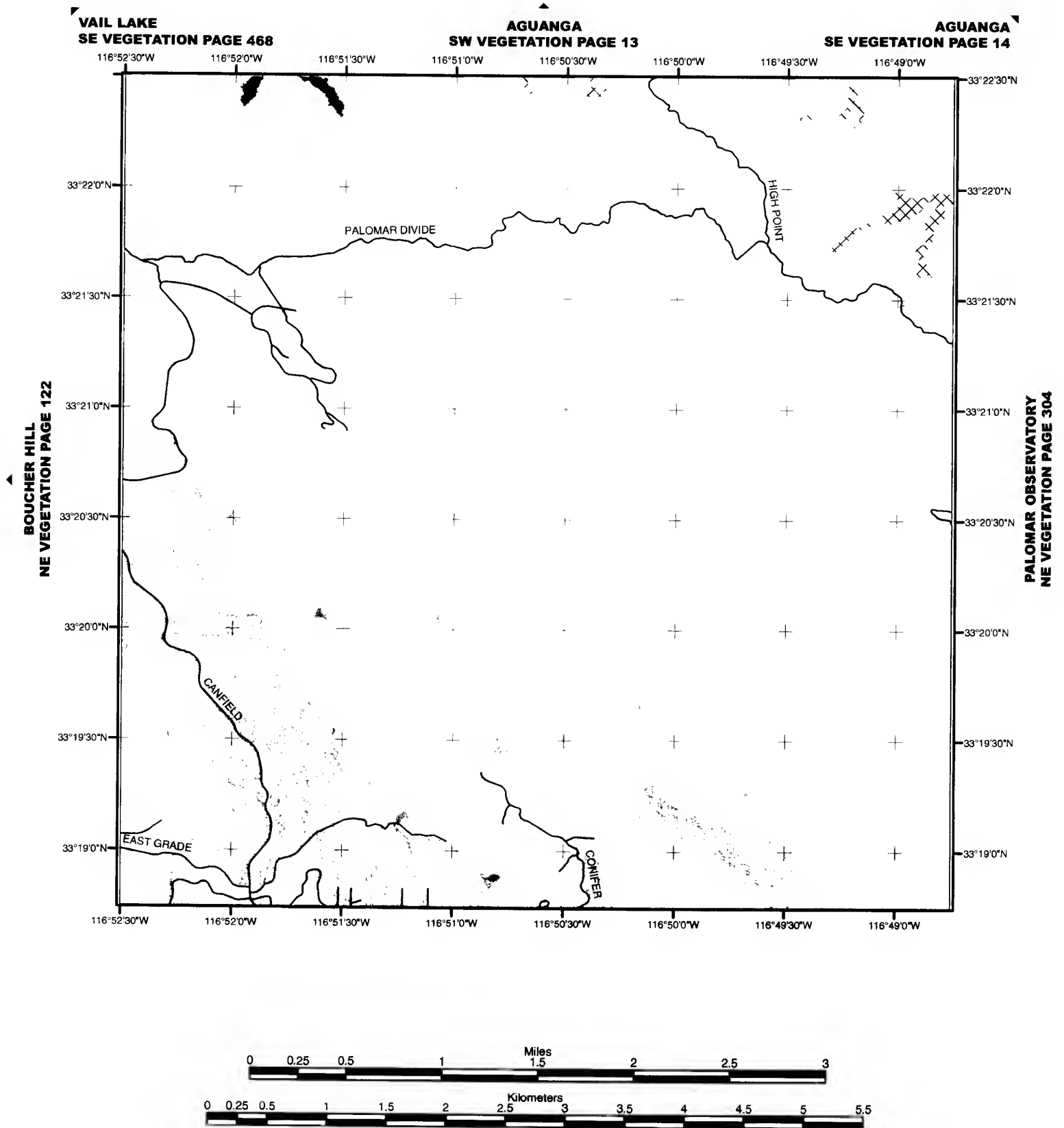


# Palomar Observatory Quadrangle

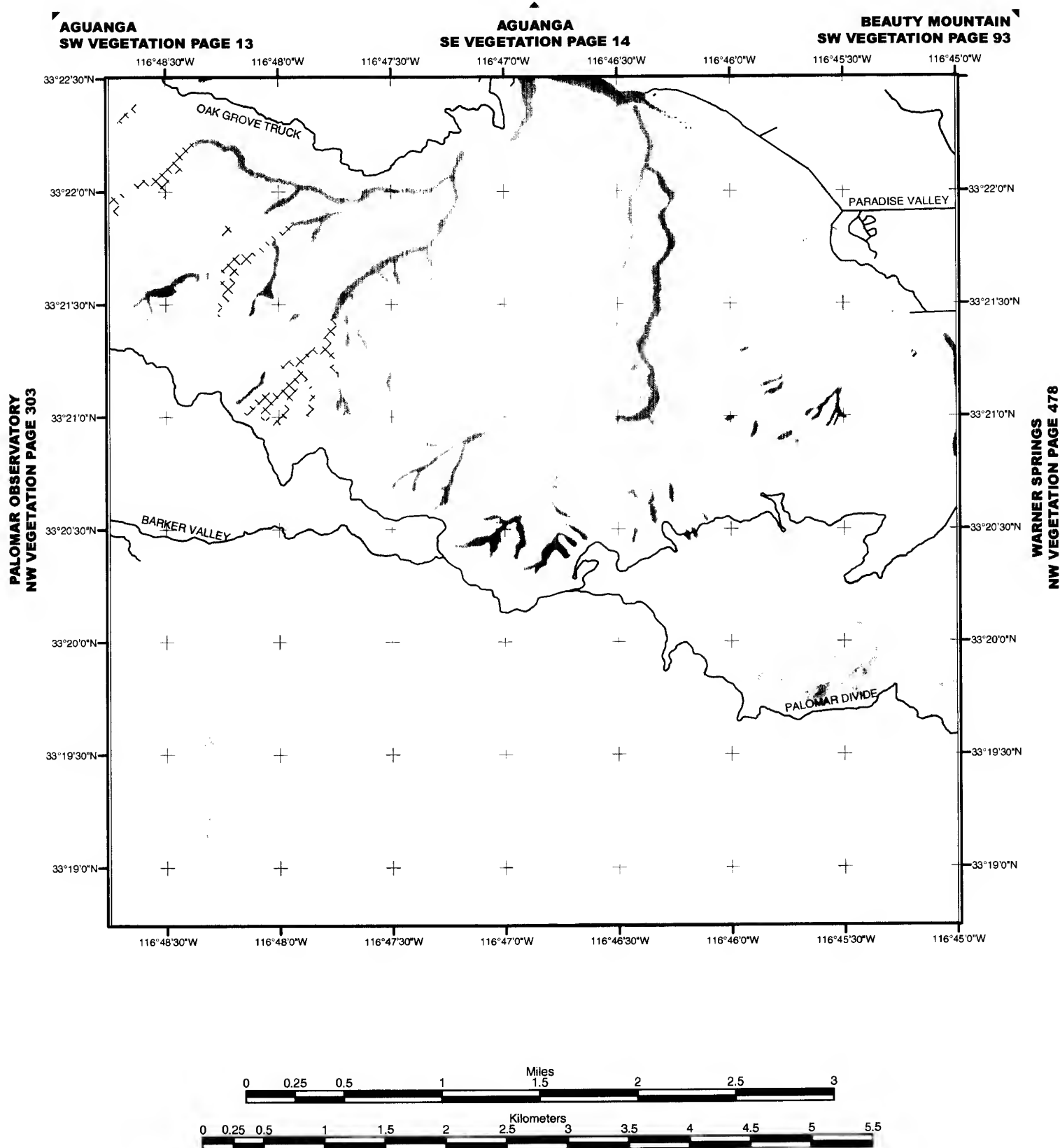
## Vegetation Species Association Units for Aquatic Resources



# Palomar Observatory North West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

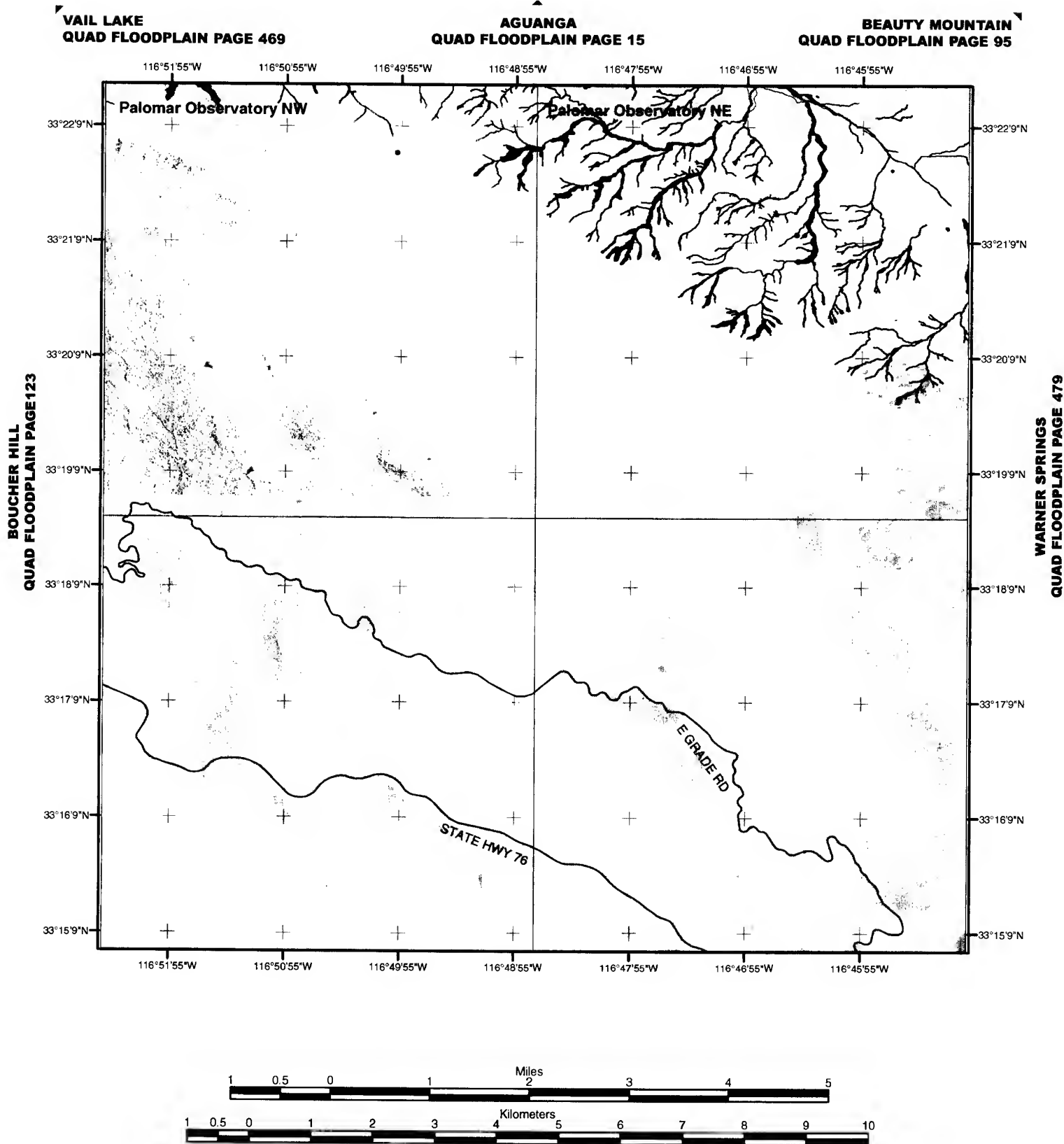


# Palomar Observatory North East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

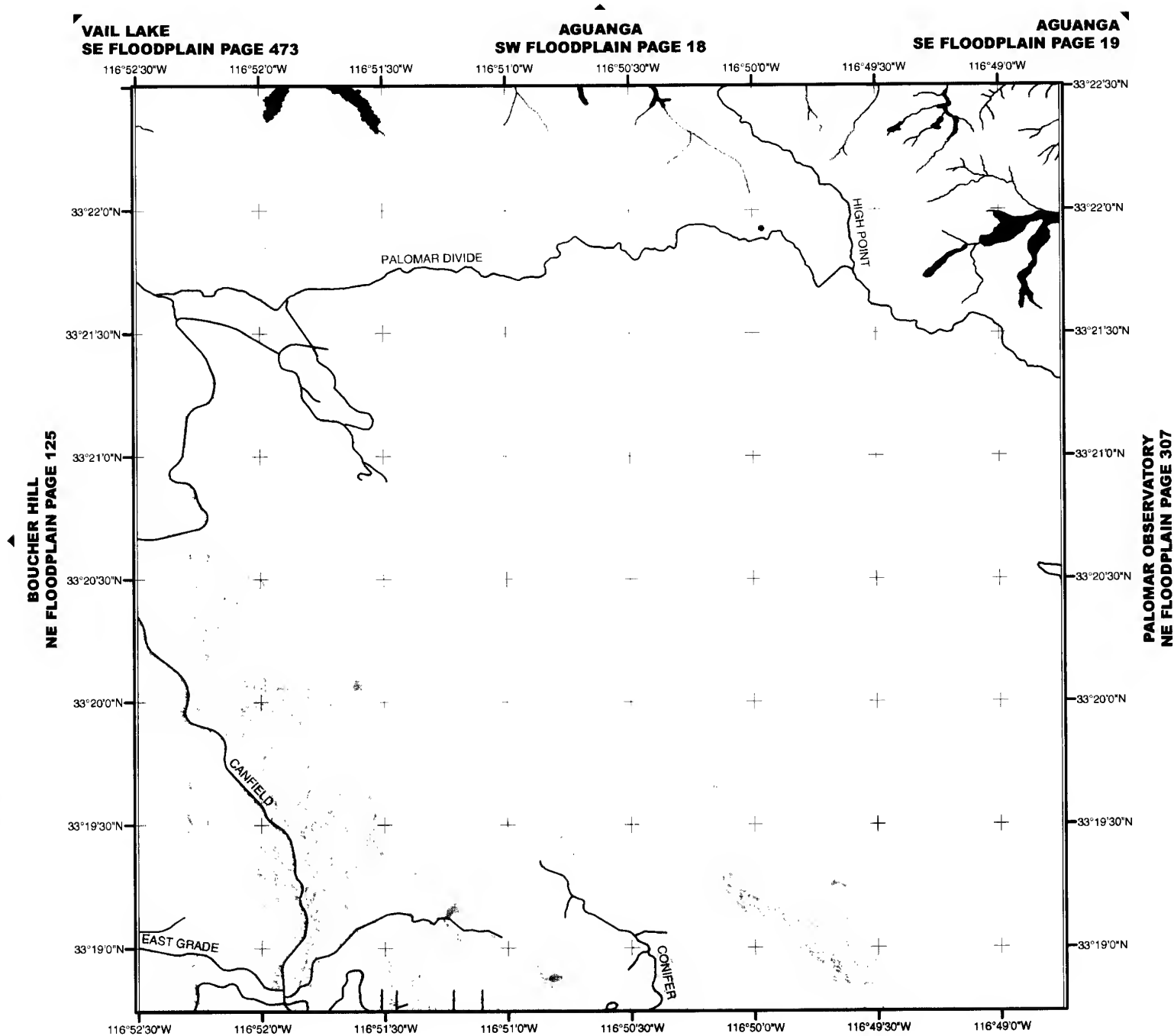


# Palomar Observatory Quadrangle

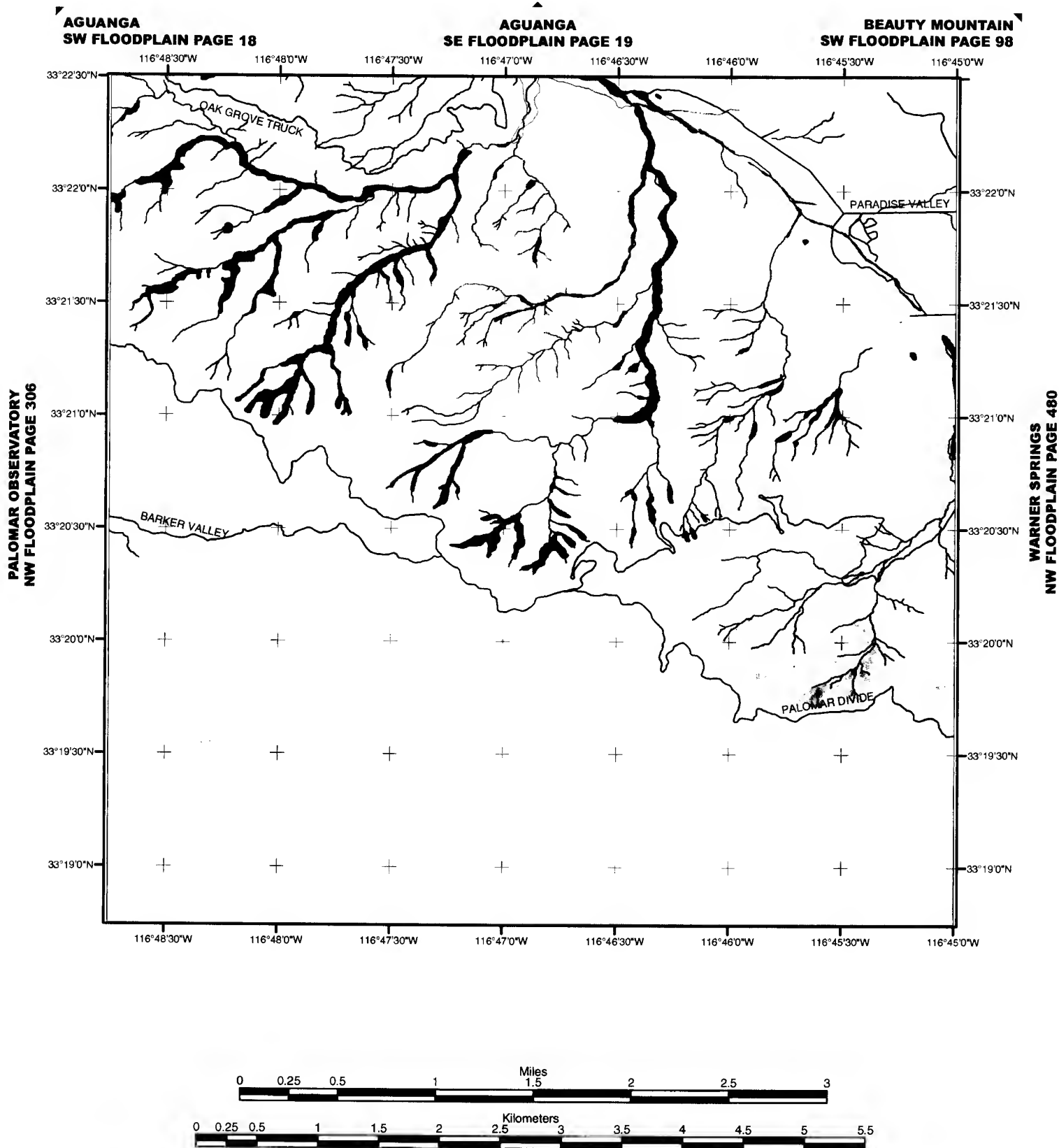
## Hydrogeomorphic Floodplain Units for Aquatic Resources



# Palomar Observatory North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



# Palomar Observatory North East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

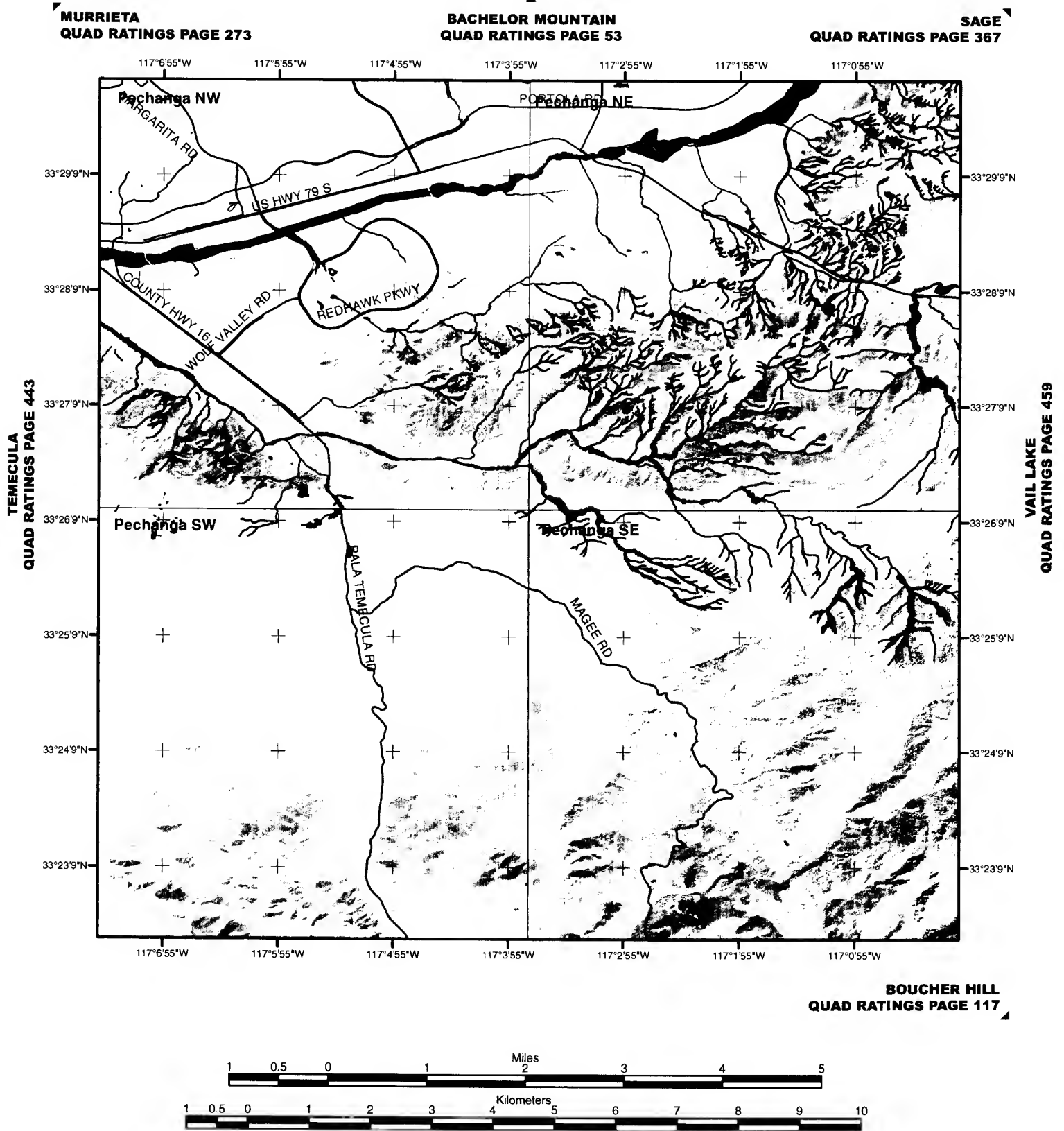




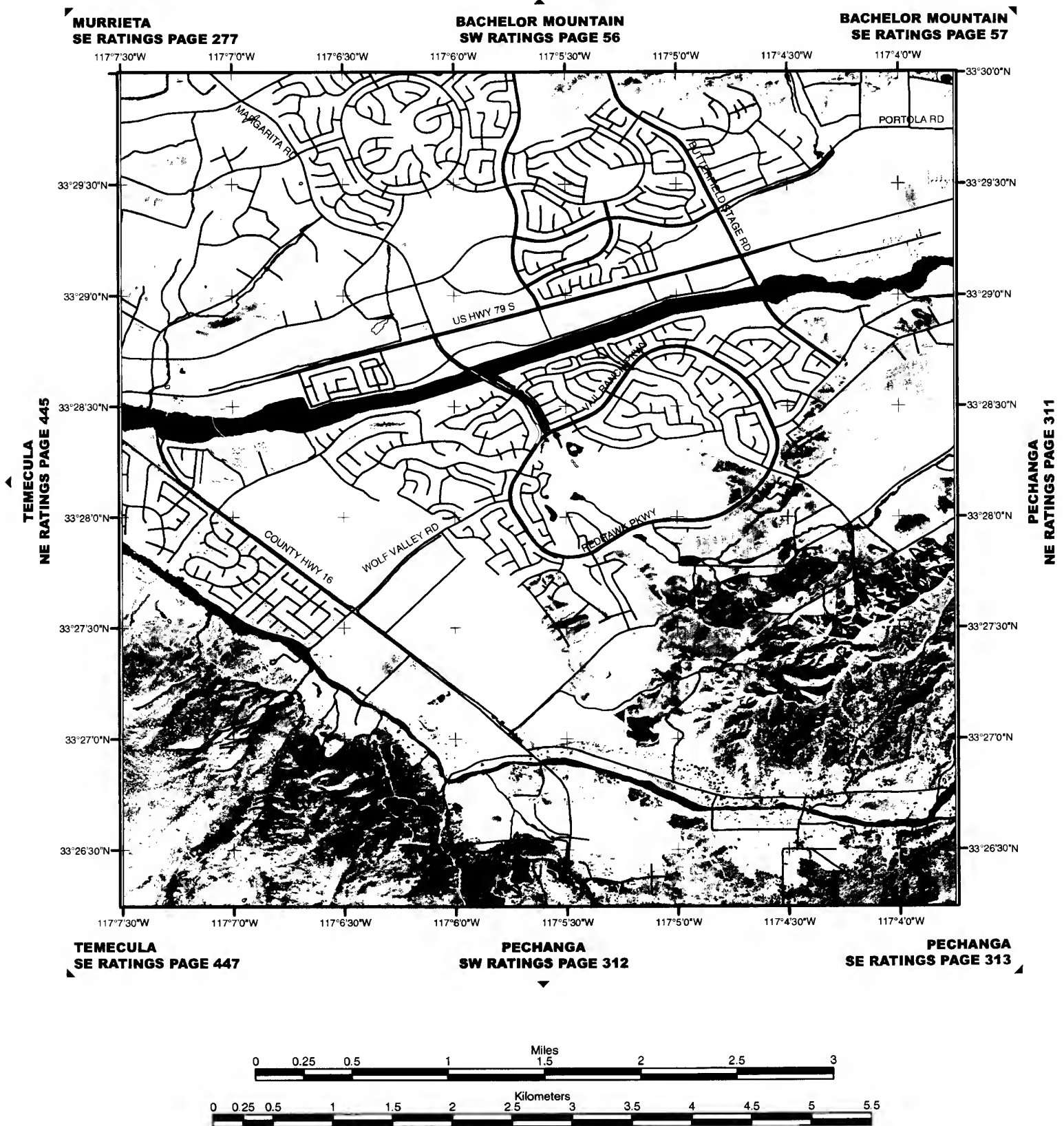


# Pechanga Quadrangle

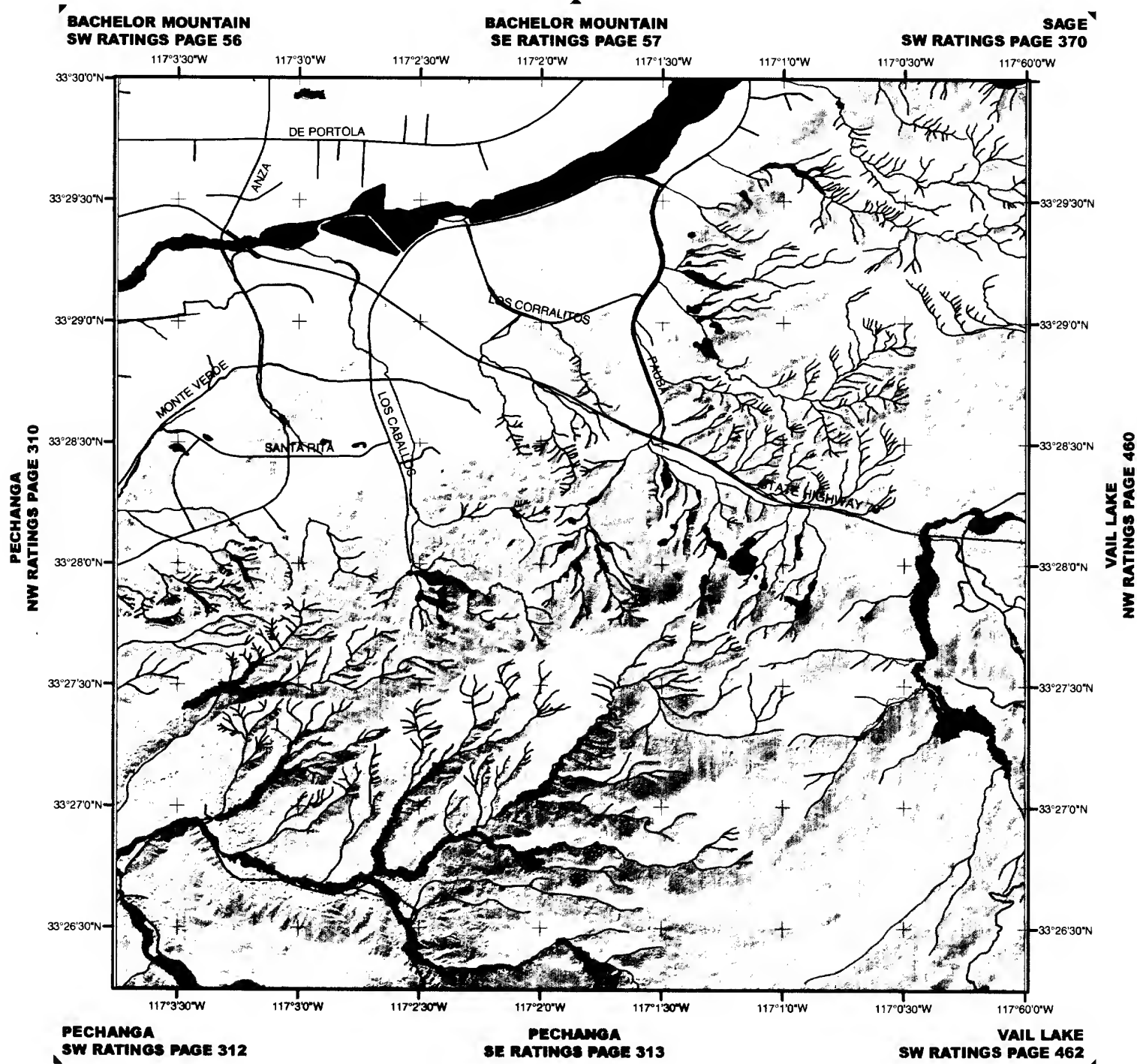
## Regulatory Probability Ratings for Aquatic Resources



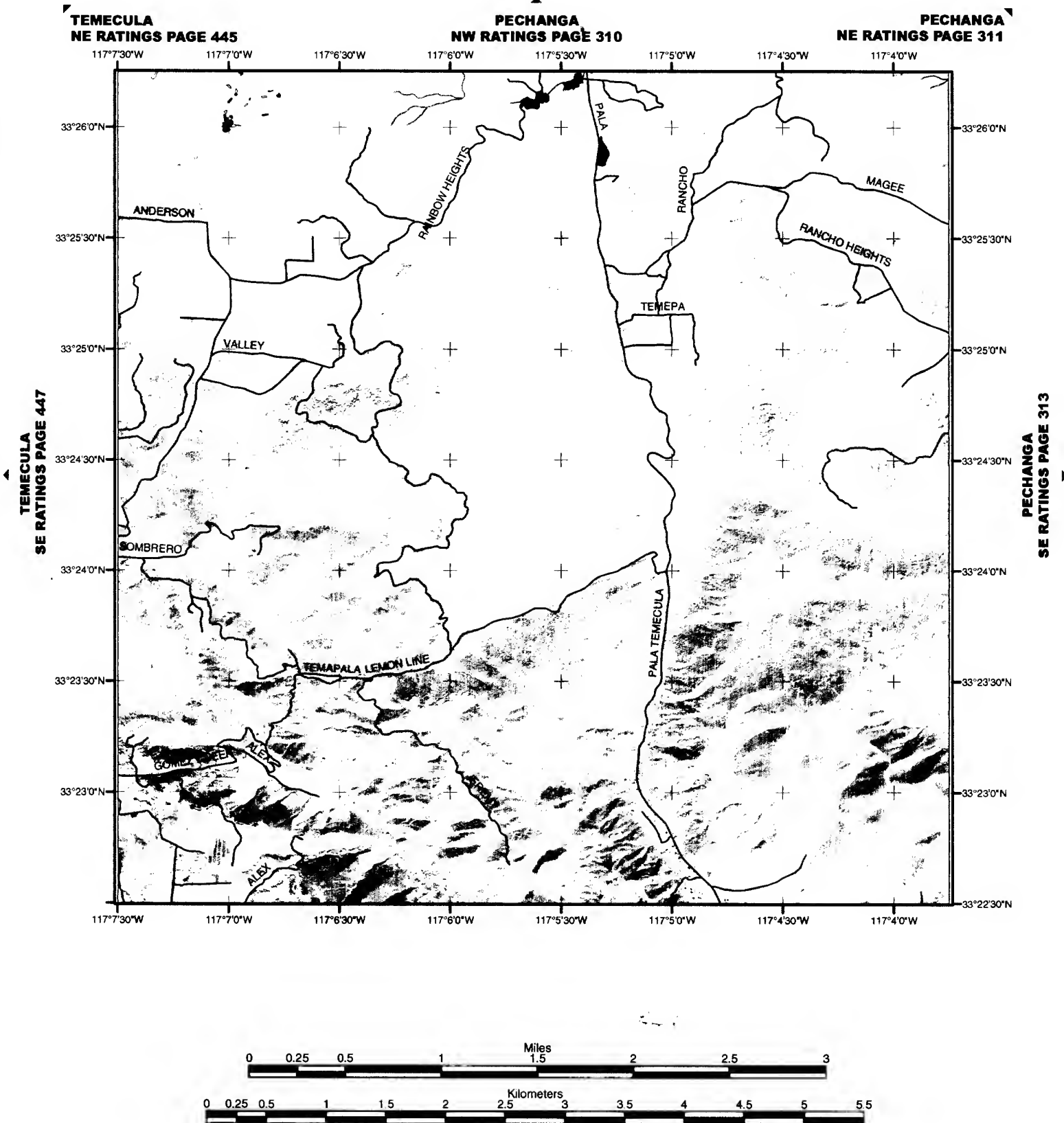
# Pechanga North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



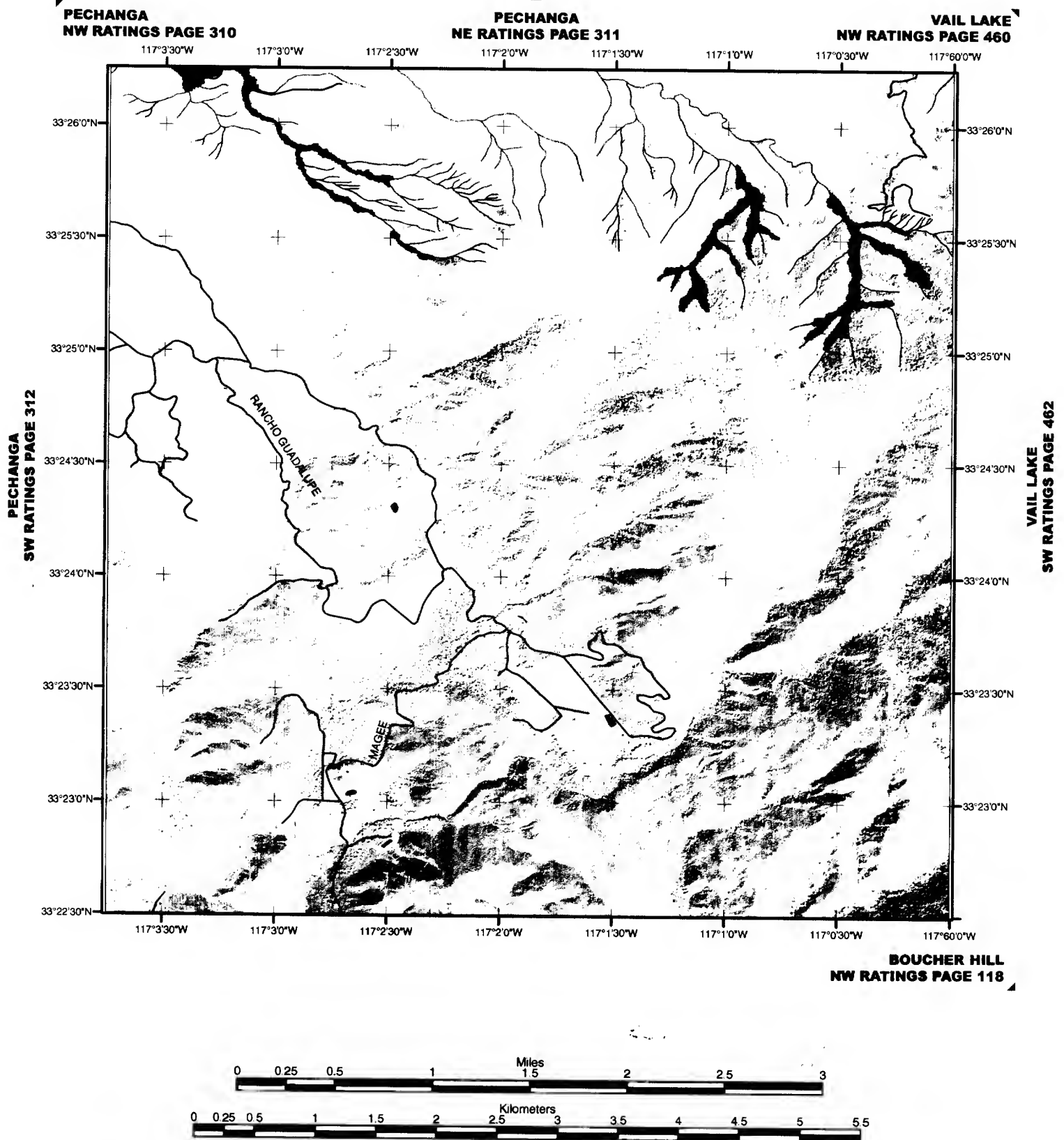
# Pechanga North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



# Pechanga South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

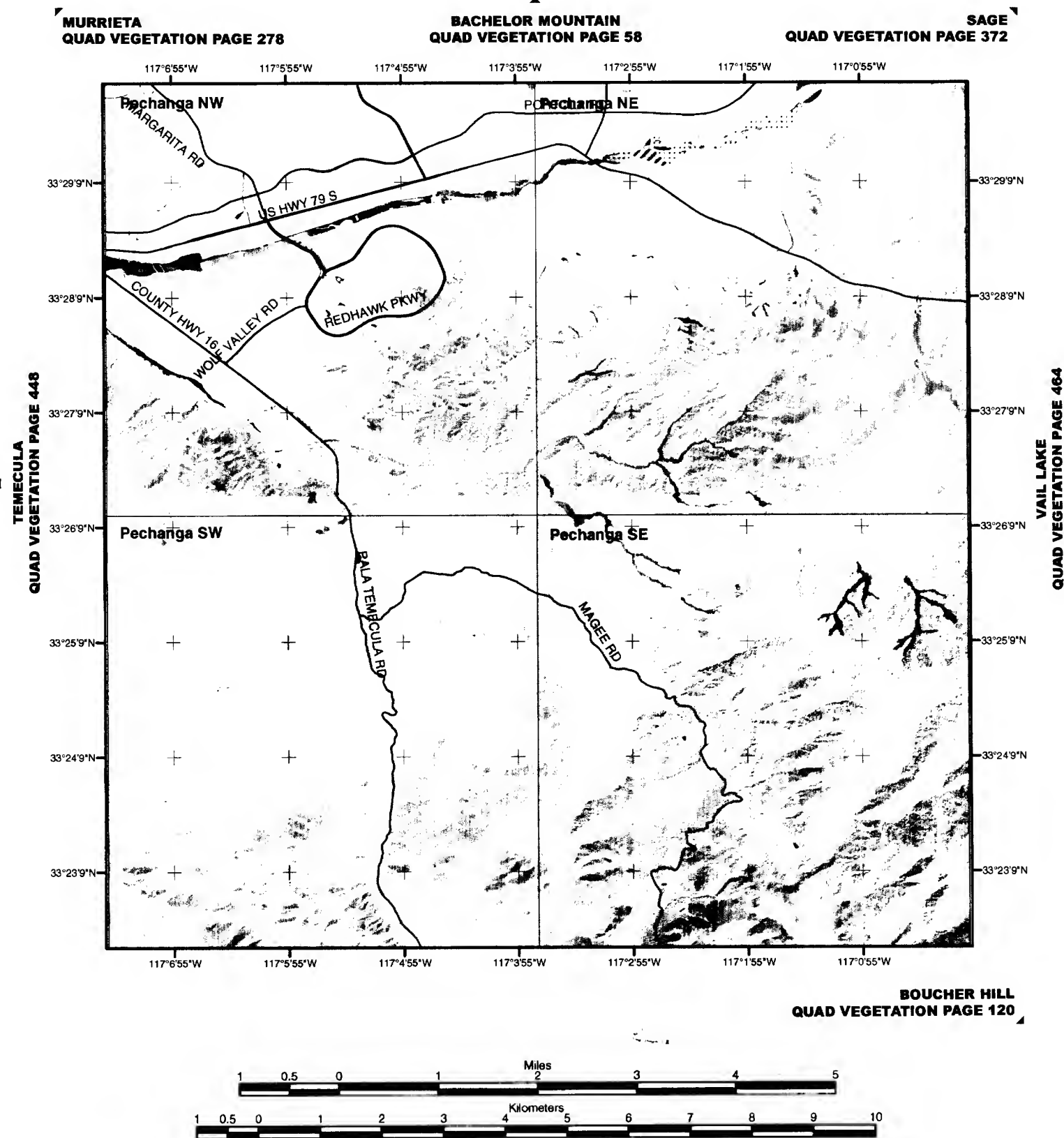


# Pechanga South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



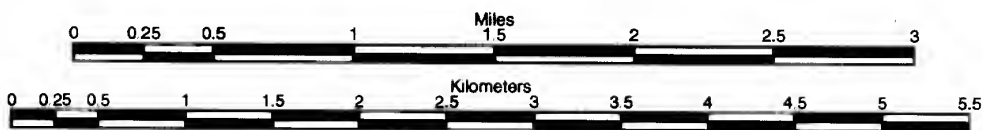
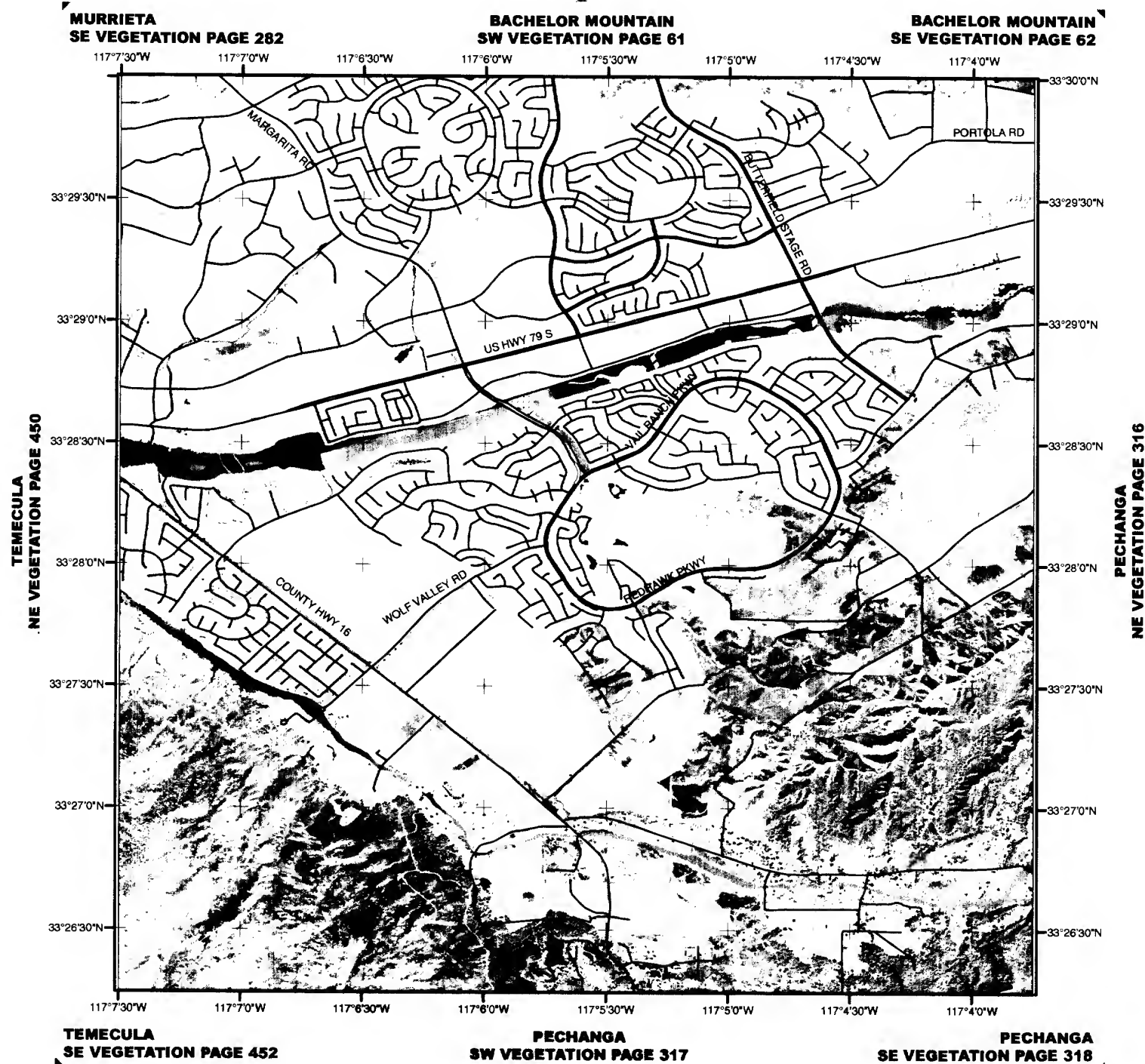
# Pechanga Quadrangle

## Vegetation Species Association Units for Aquatic Resources



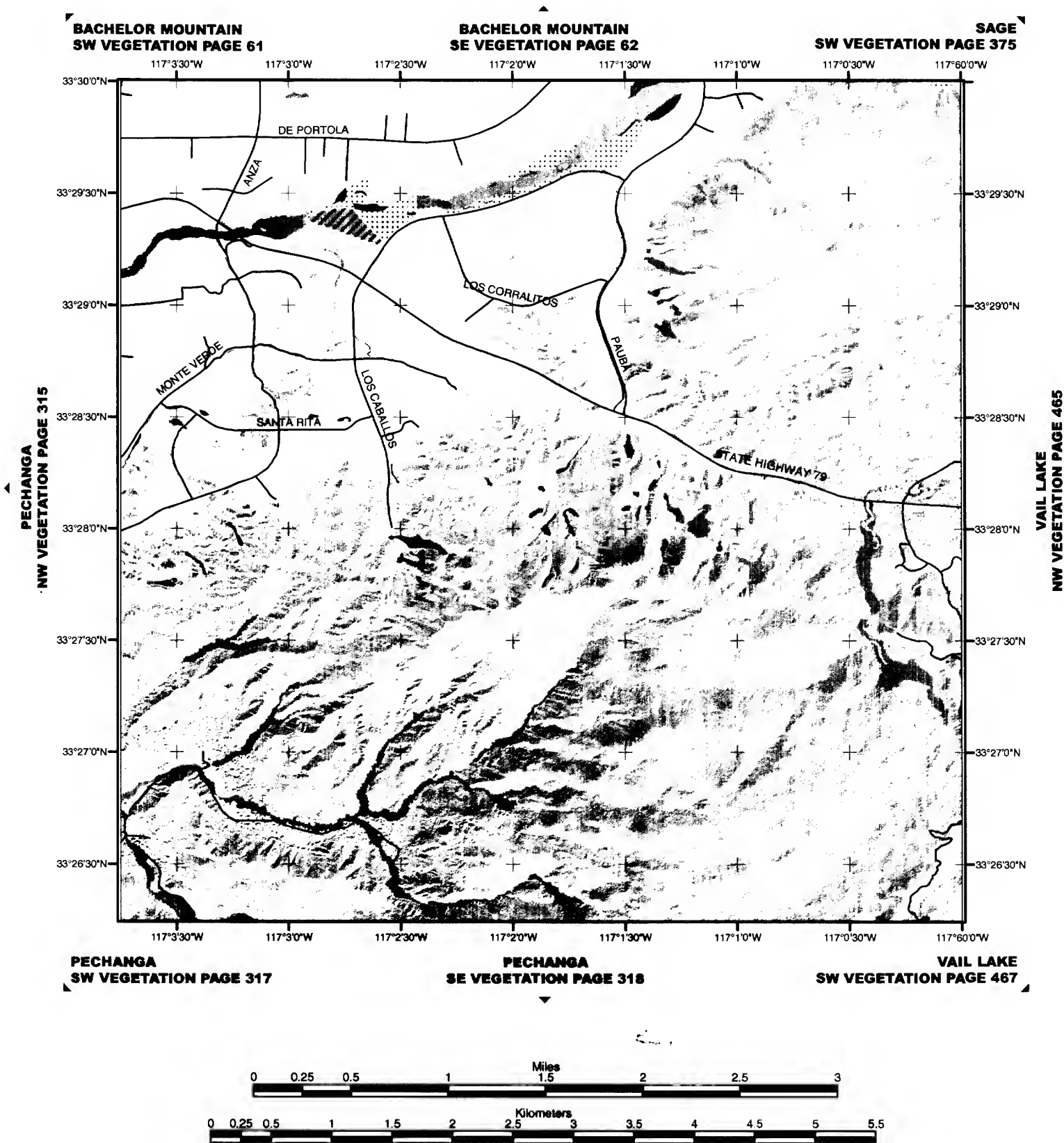


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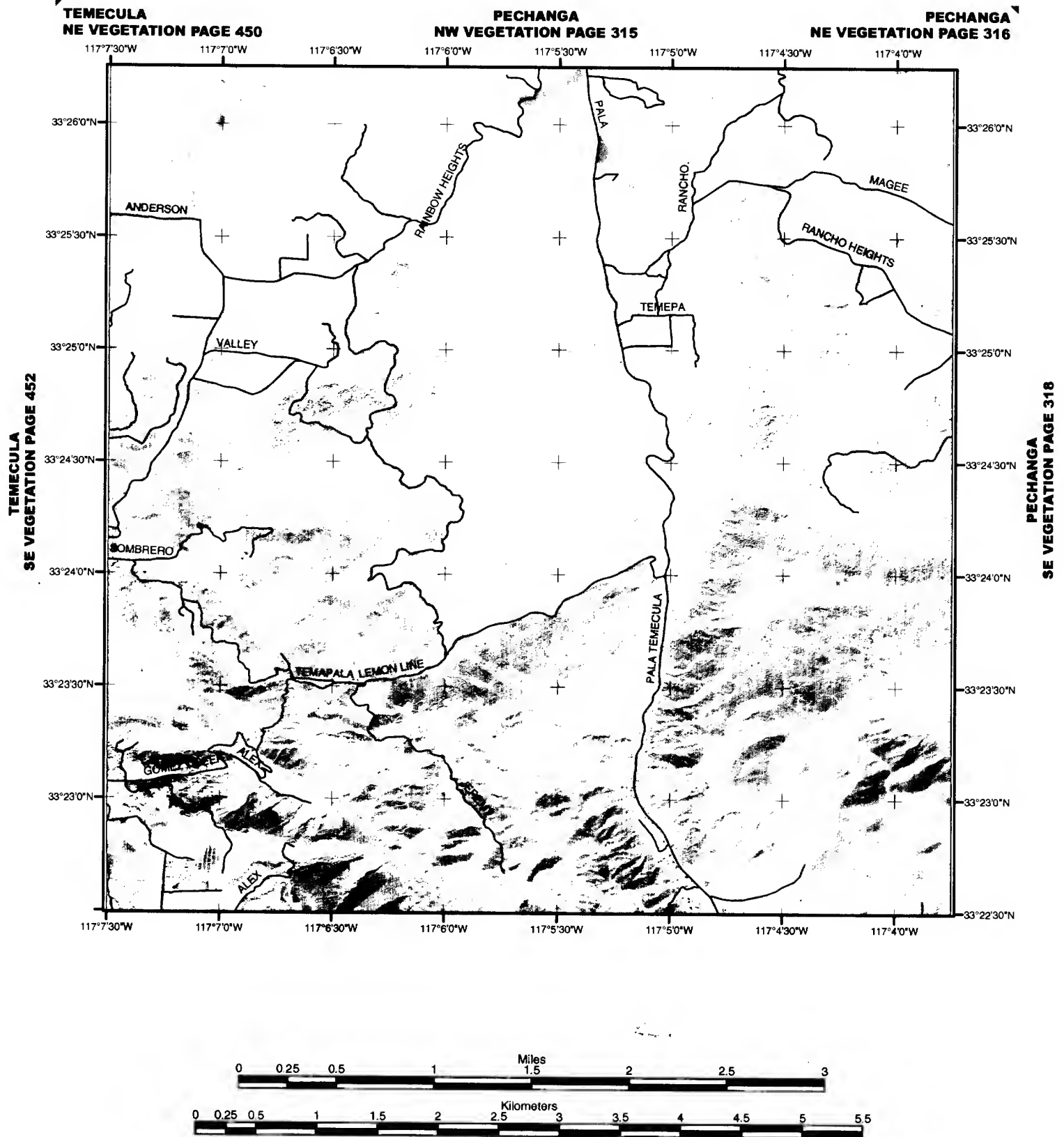




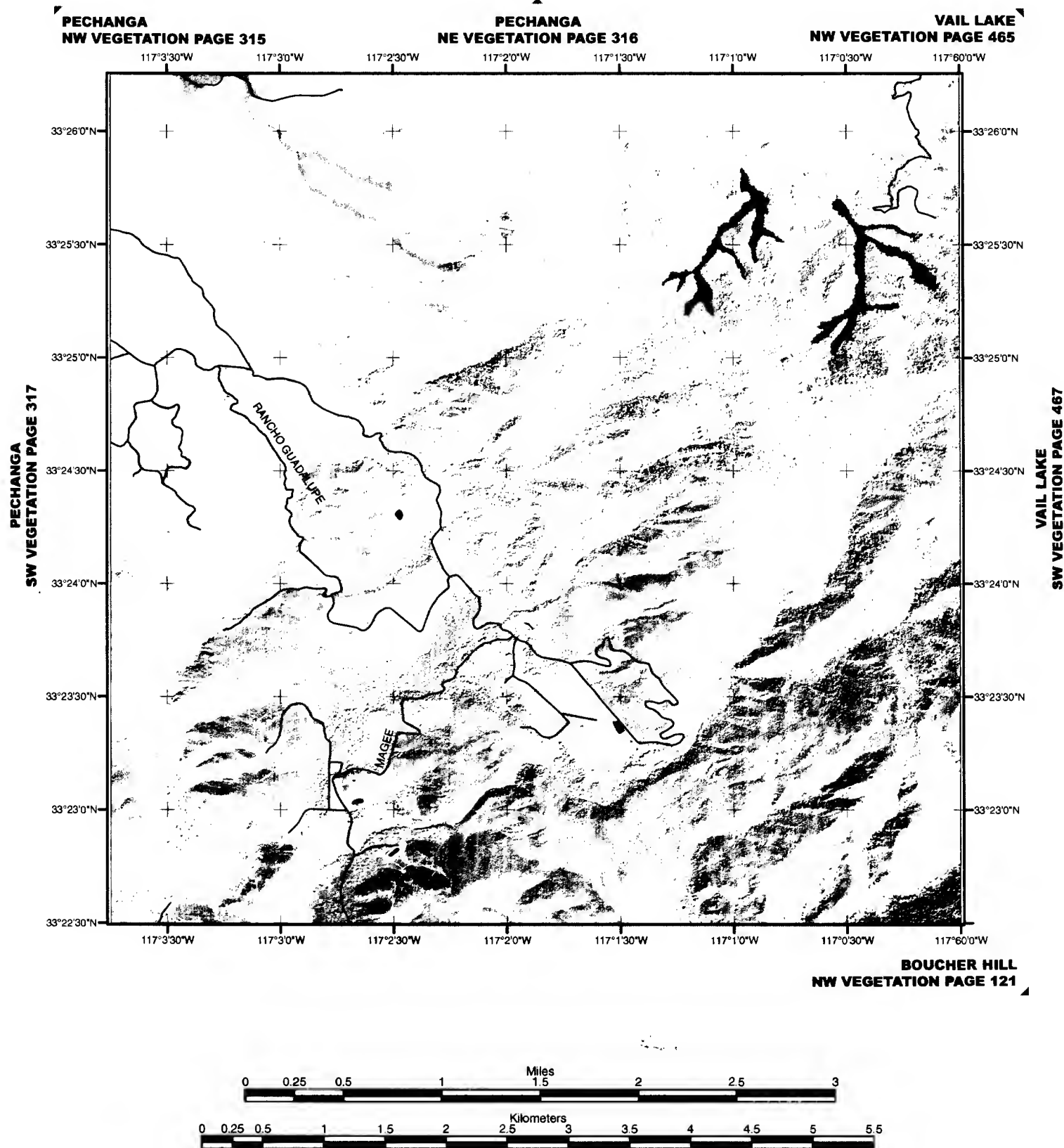
# Pechanga North East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



# Pechanga South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

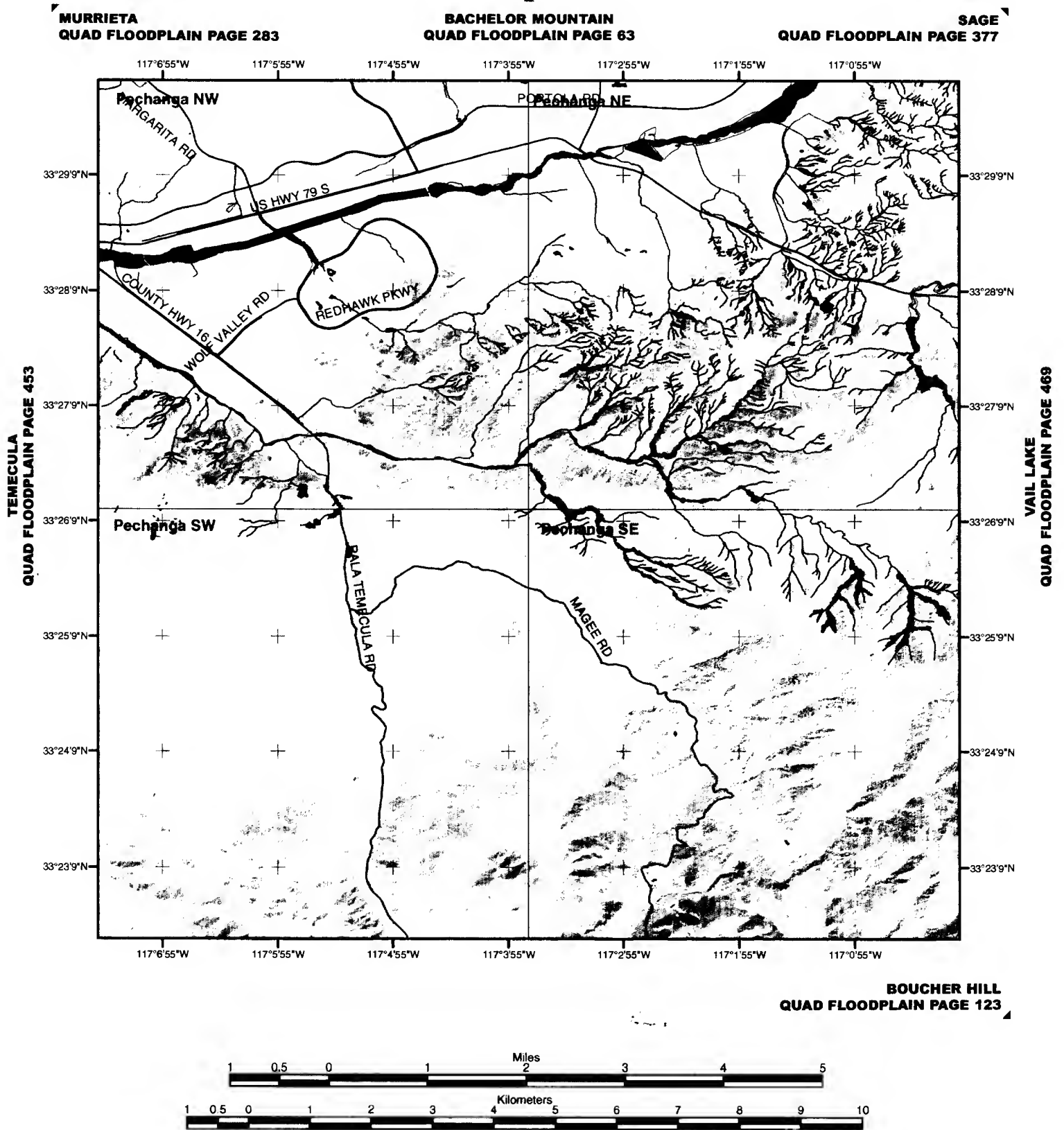


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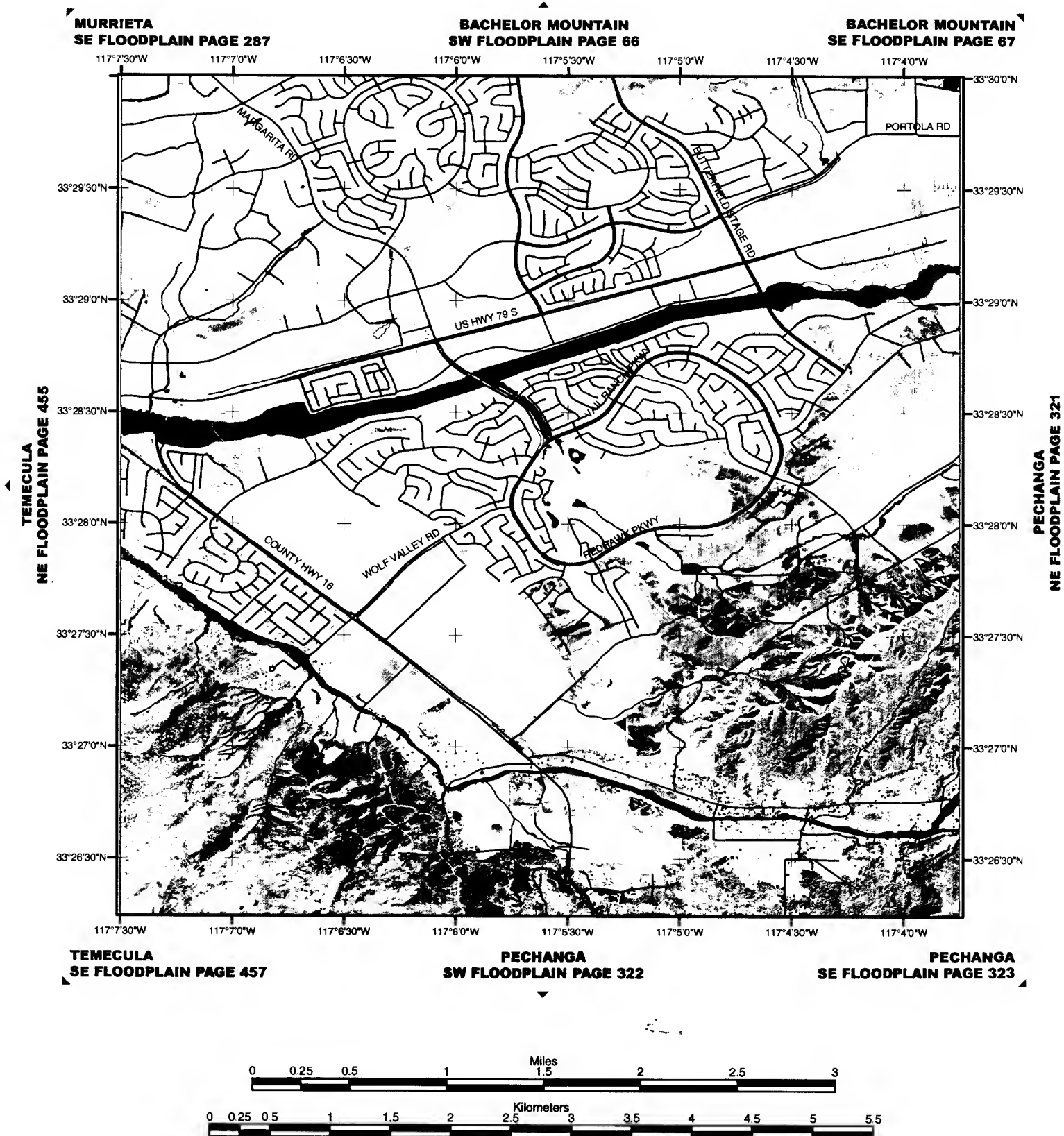


# Pechanga Quadrangle

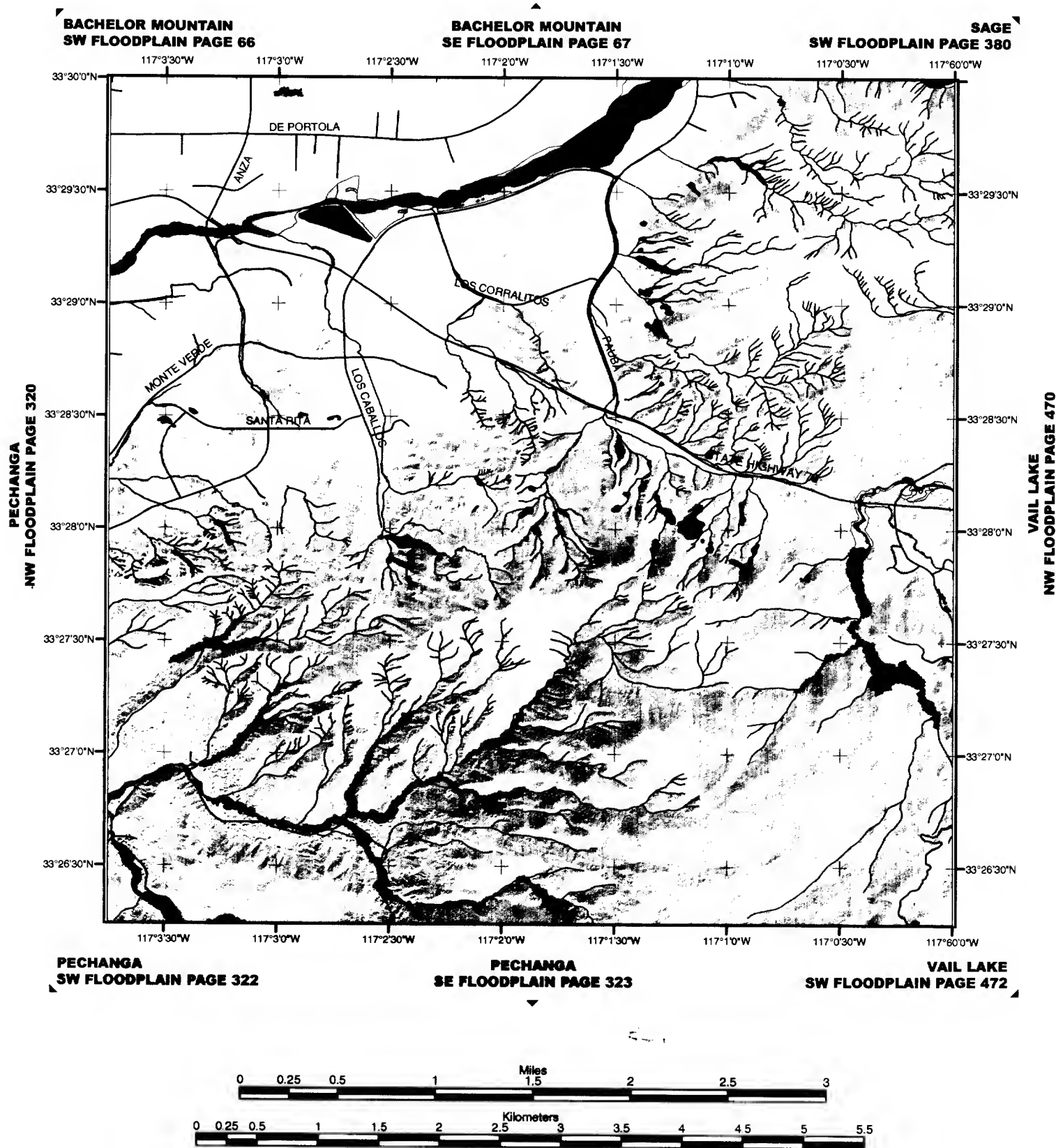
## Hydrogeomorphic Floodplain Units for Aquatic Resources



# Pechanga North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

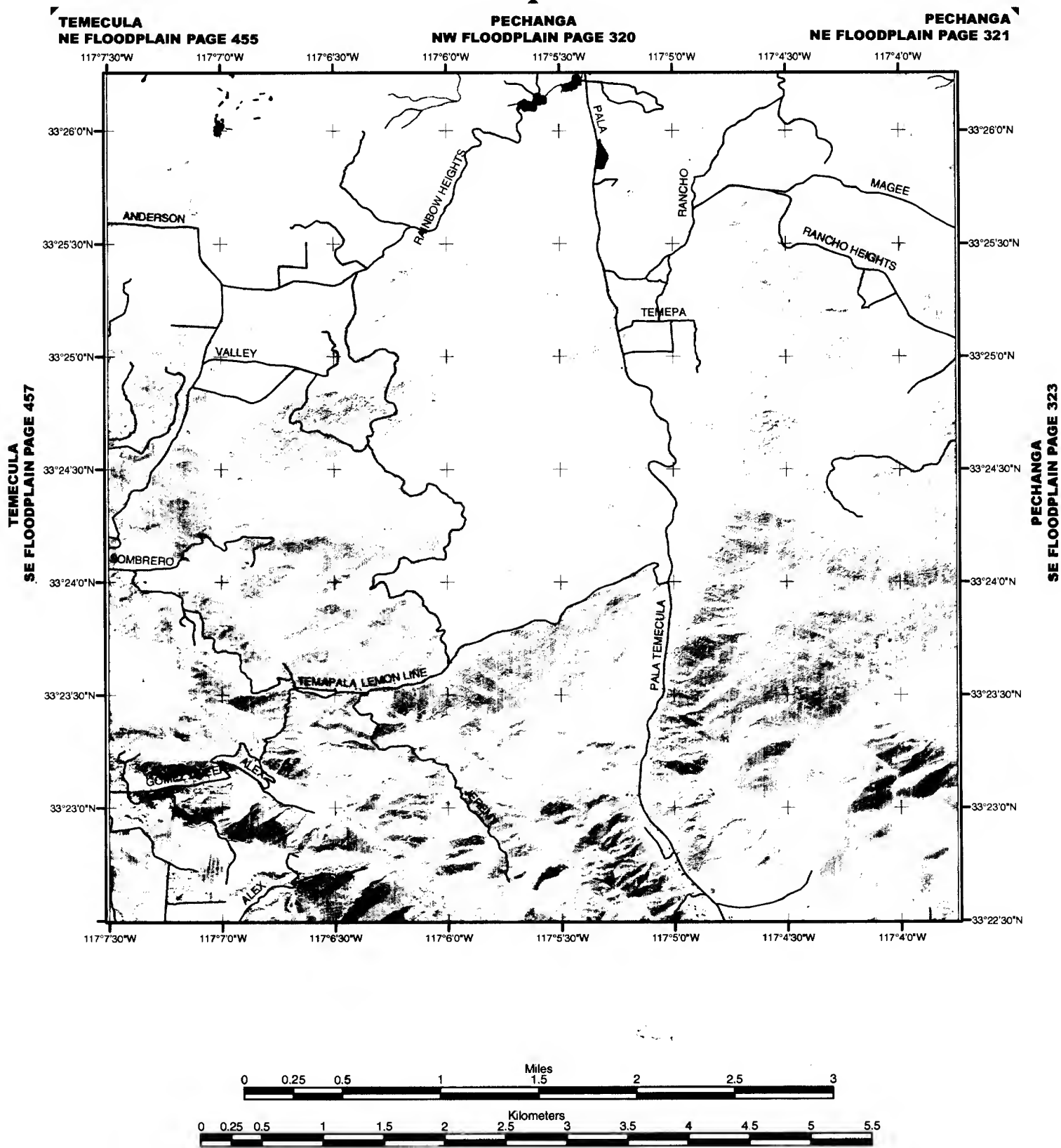


# Pechanga North East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

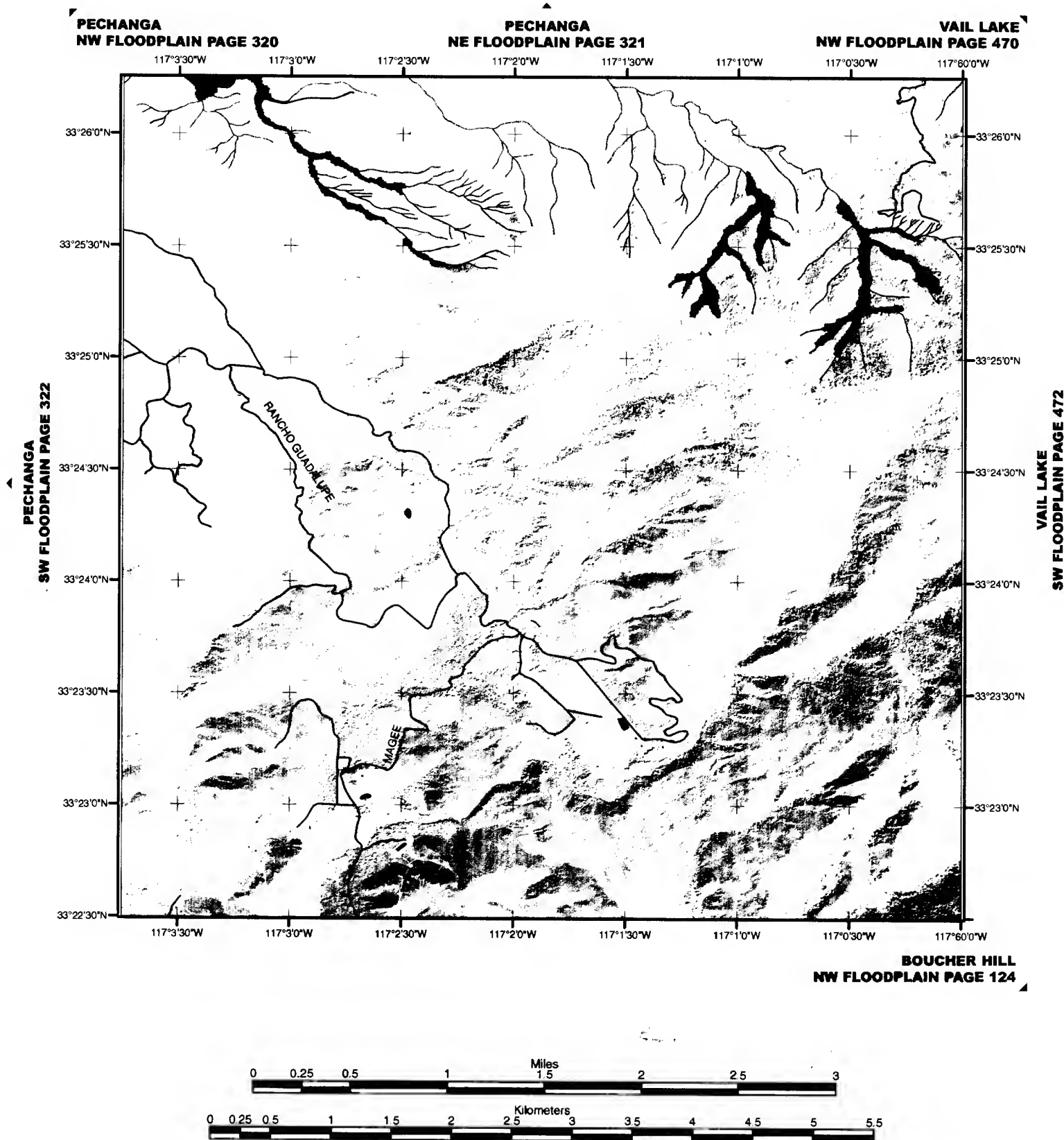




## Pechanga South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



# Pechanga South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

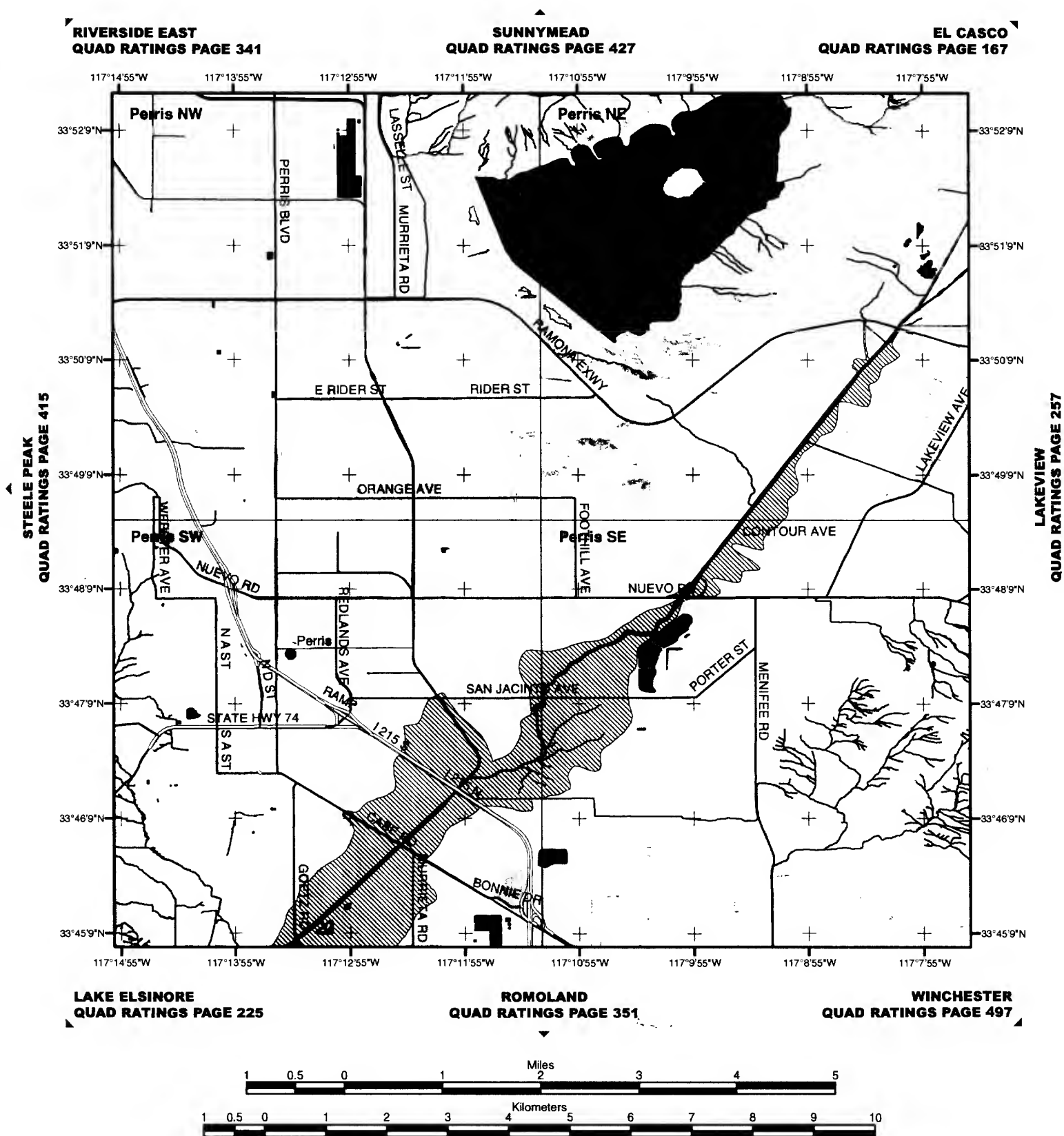




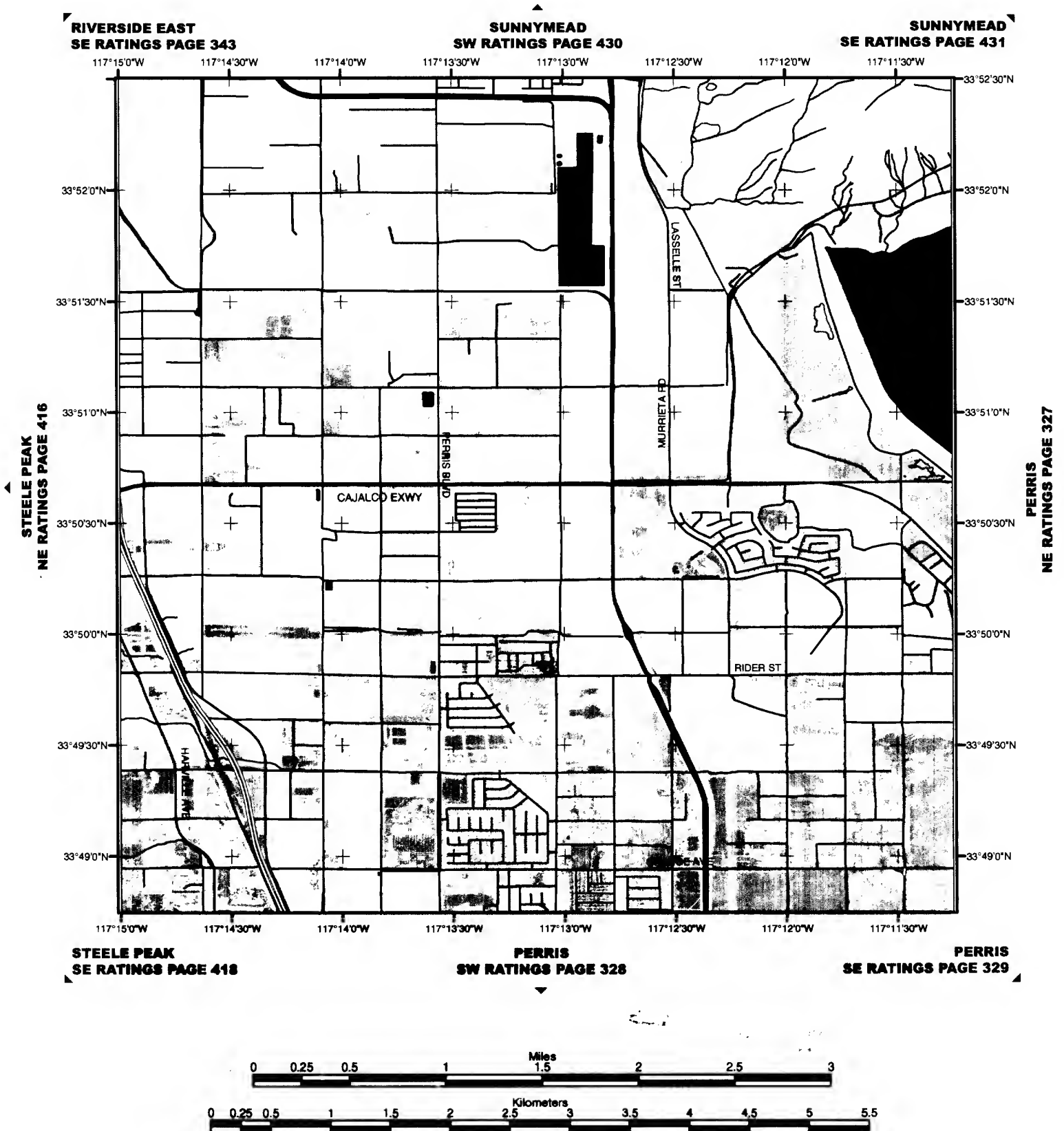


# Perris Quadrangle

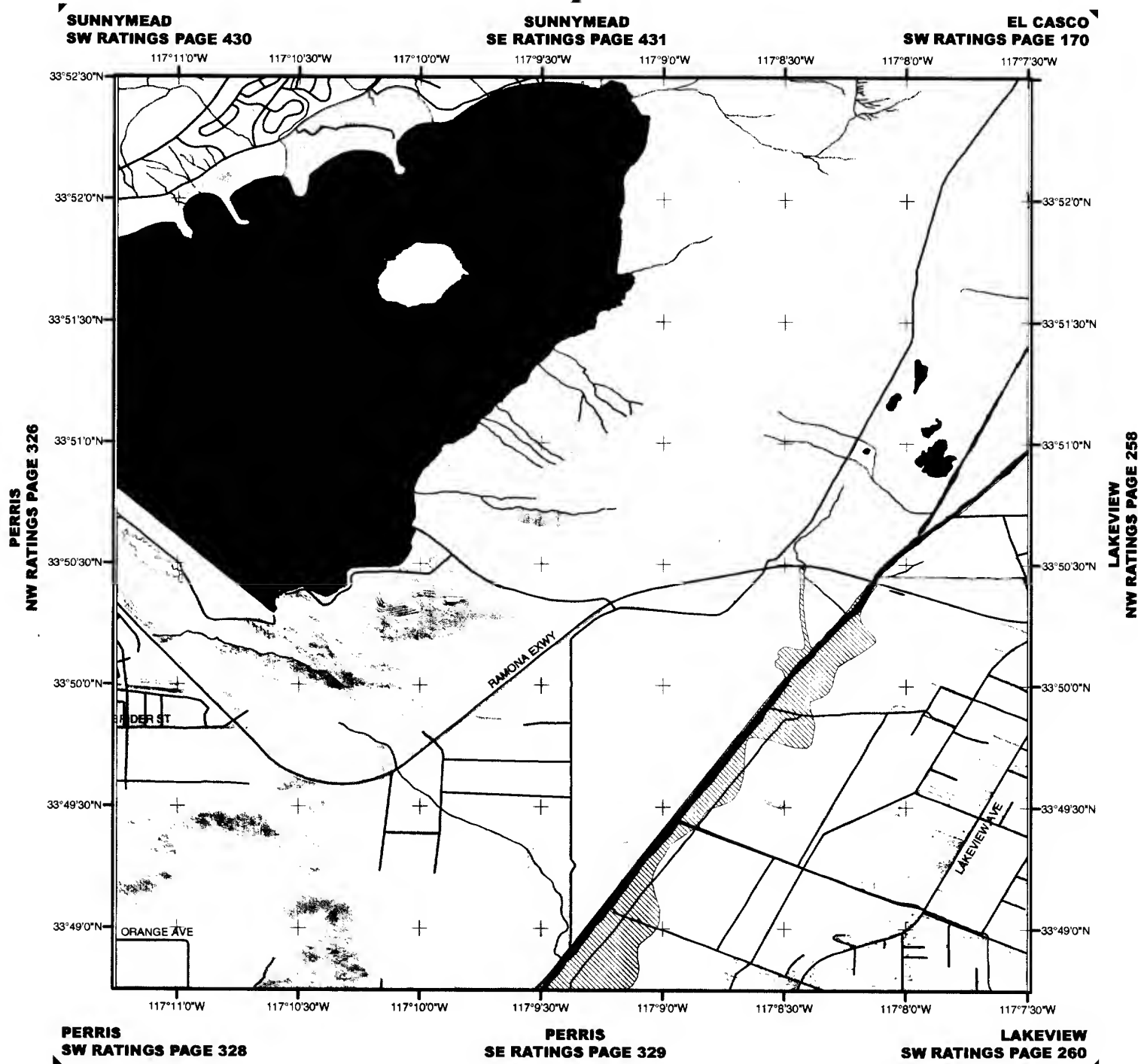
## Regulatory Probability Ratings for Aquatic Resources



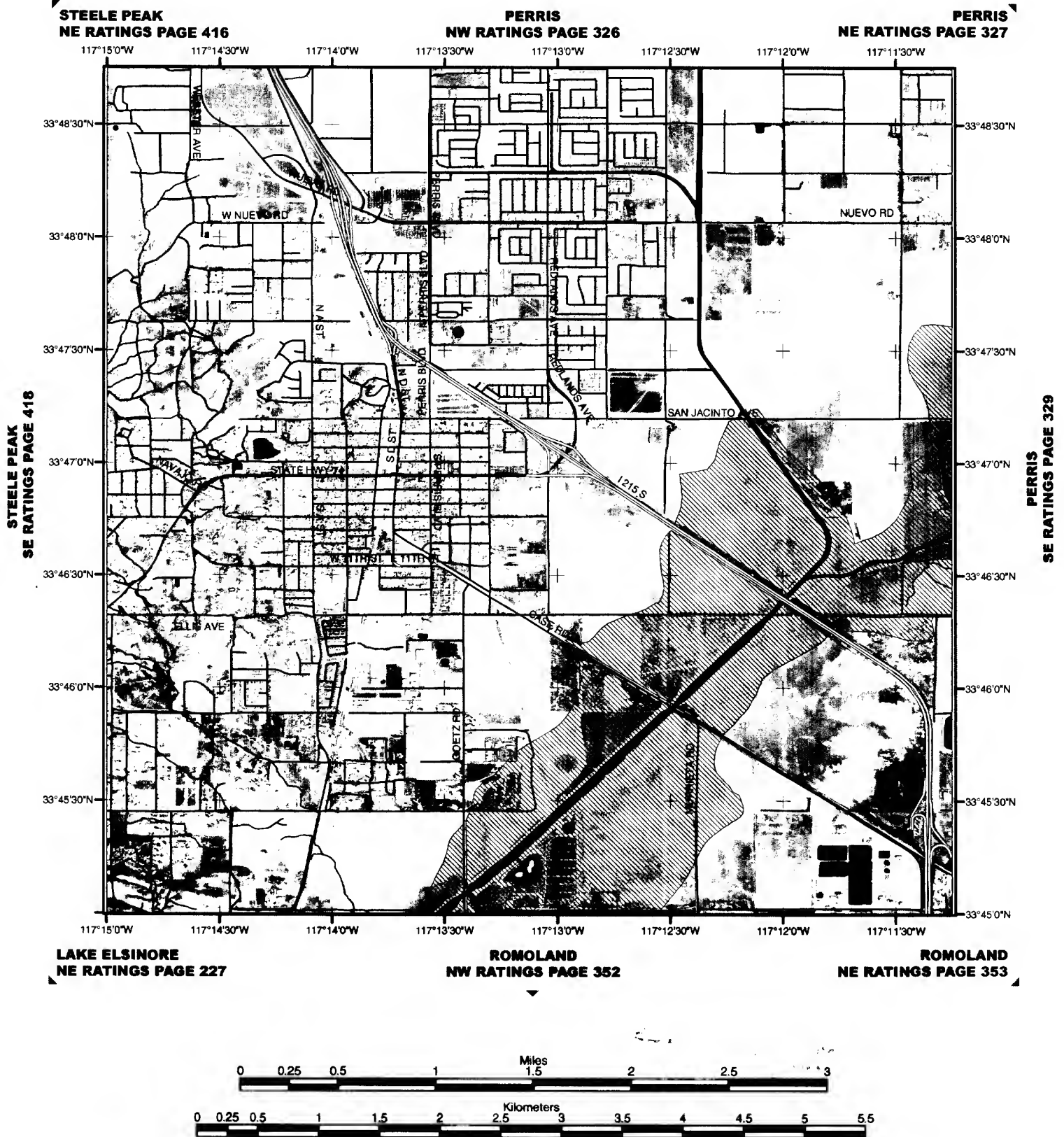
# Perris North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



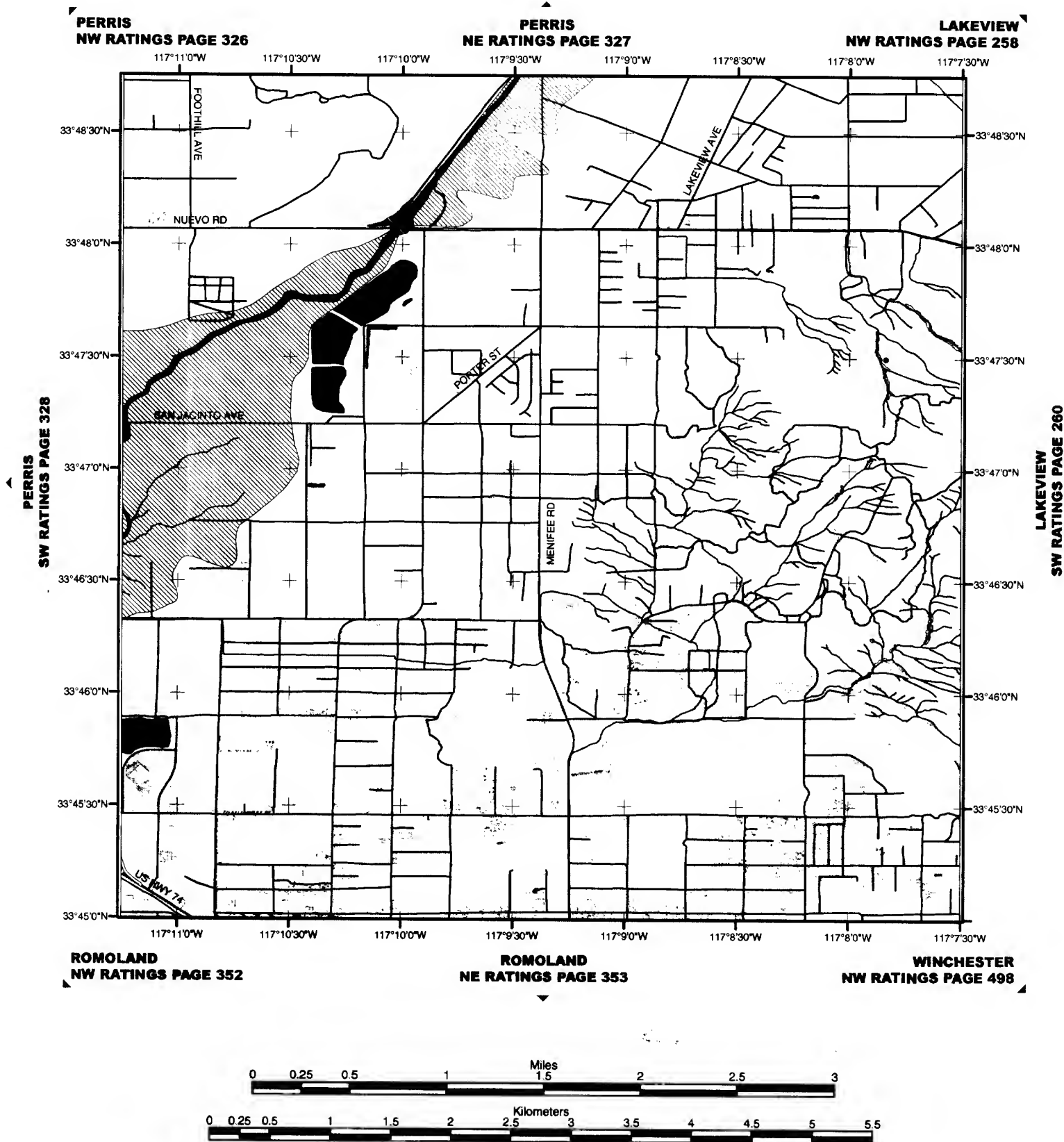
# Perris North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



# Perris South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

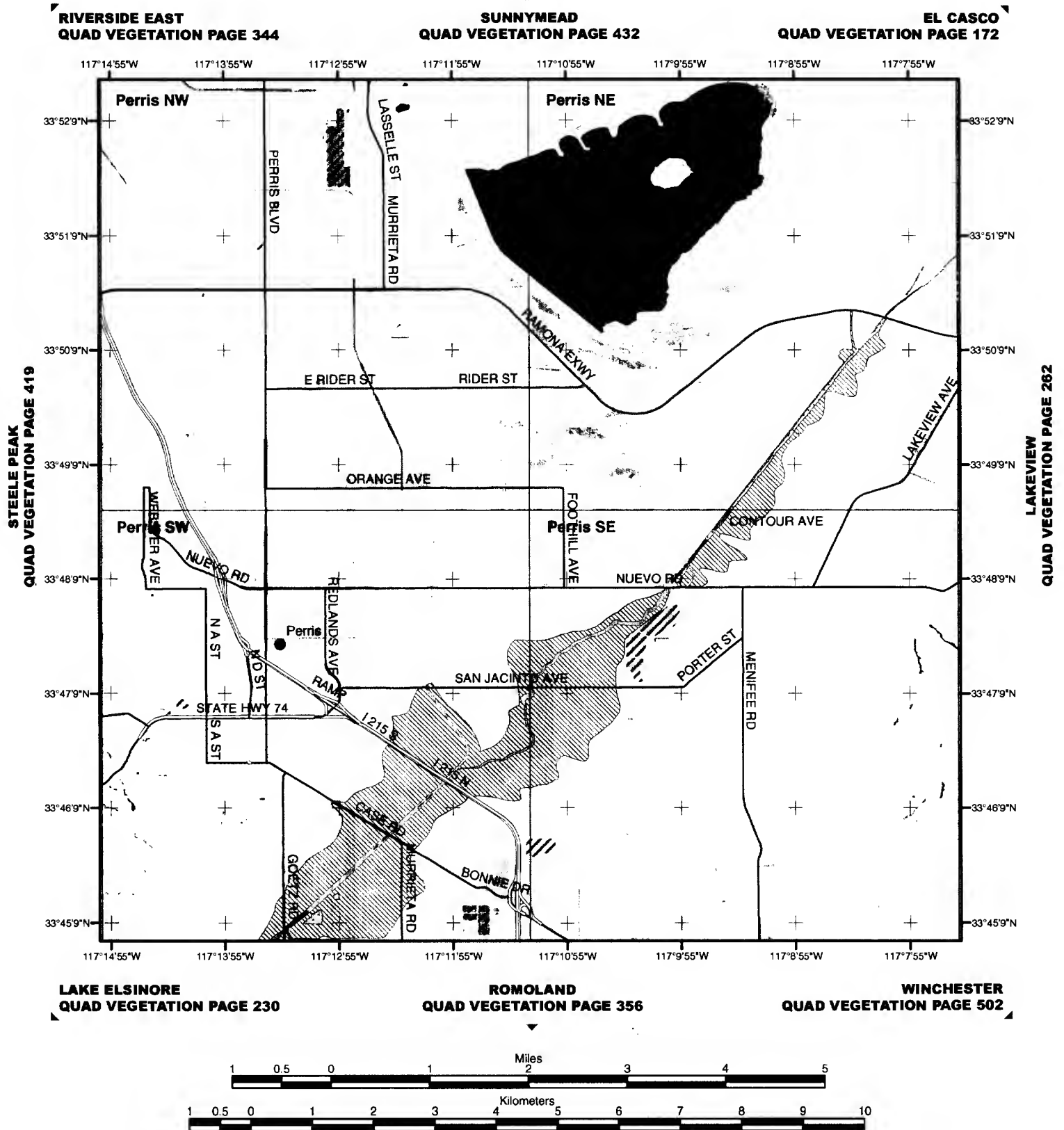


# Perris South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

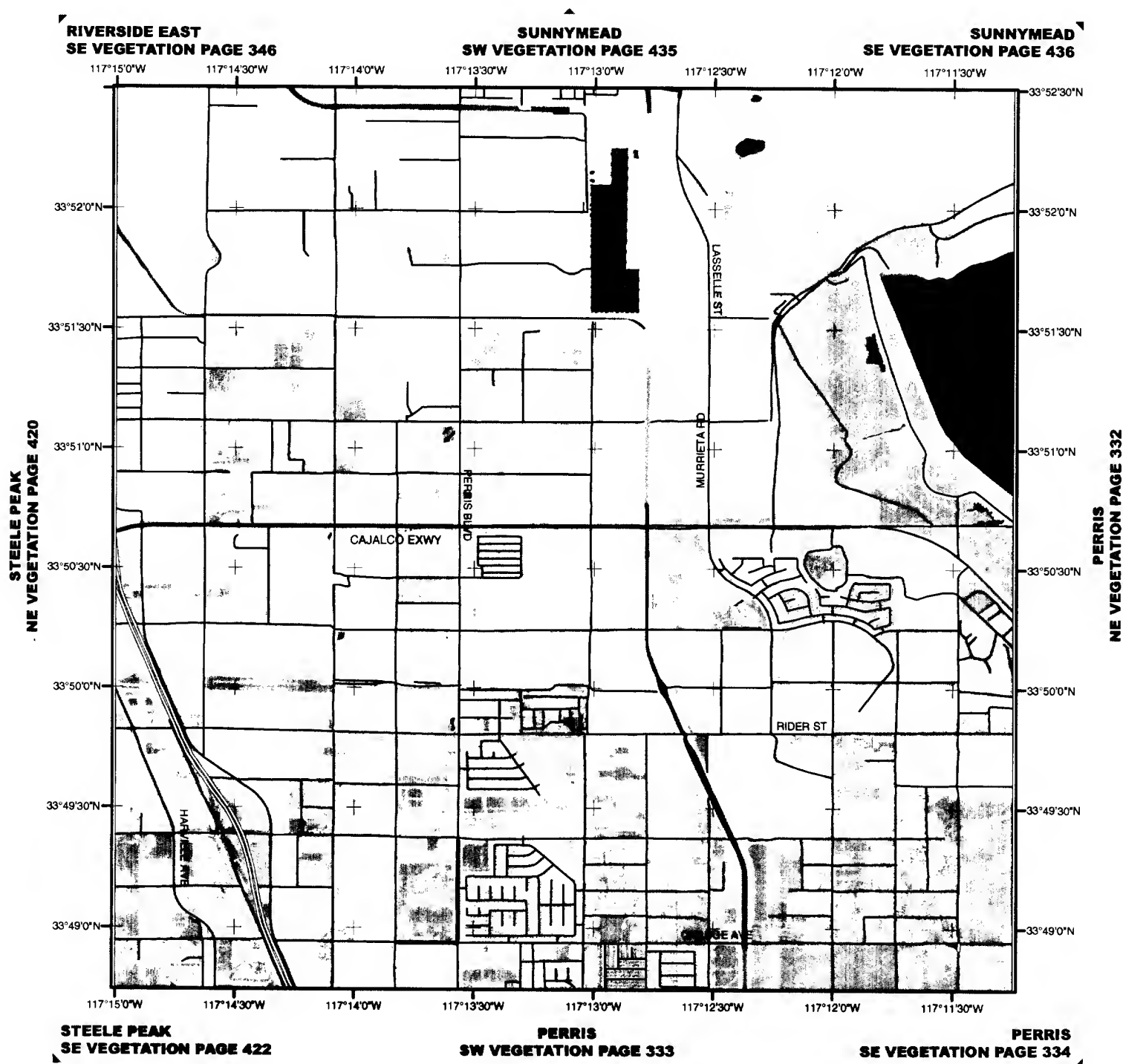


# Perris Quadrangle

## Vegetation Species Association Units for Aquatic Resources



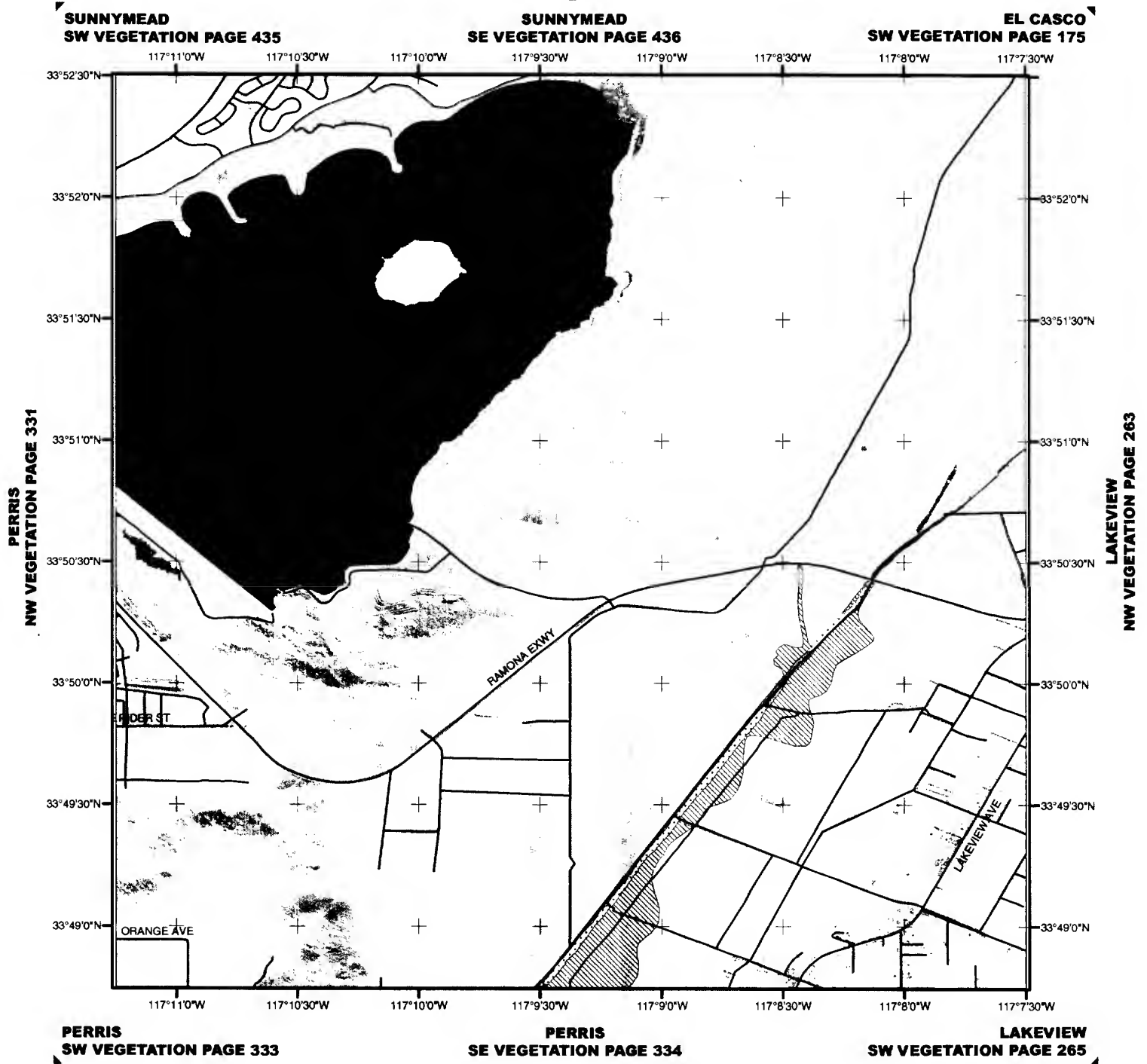
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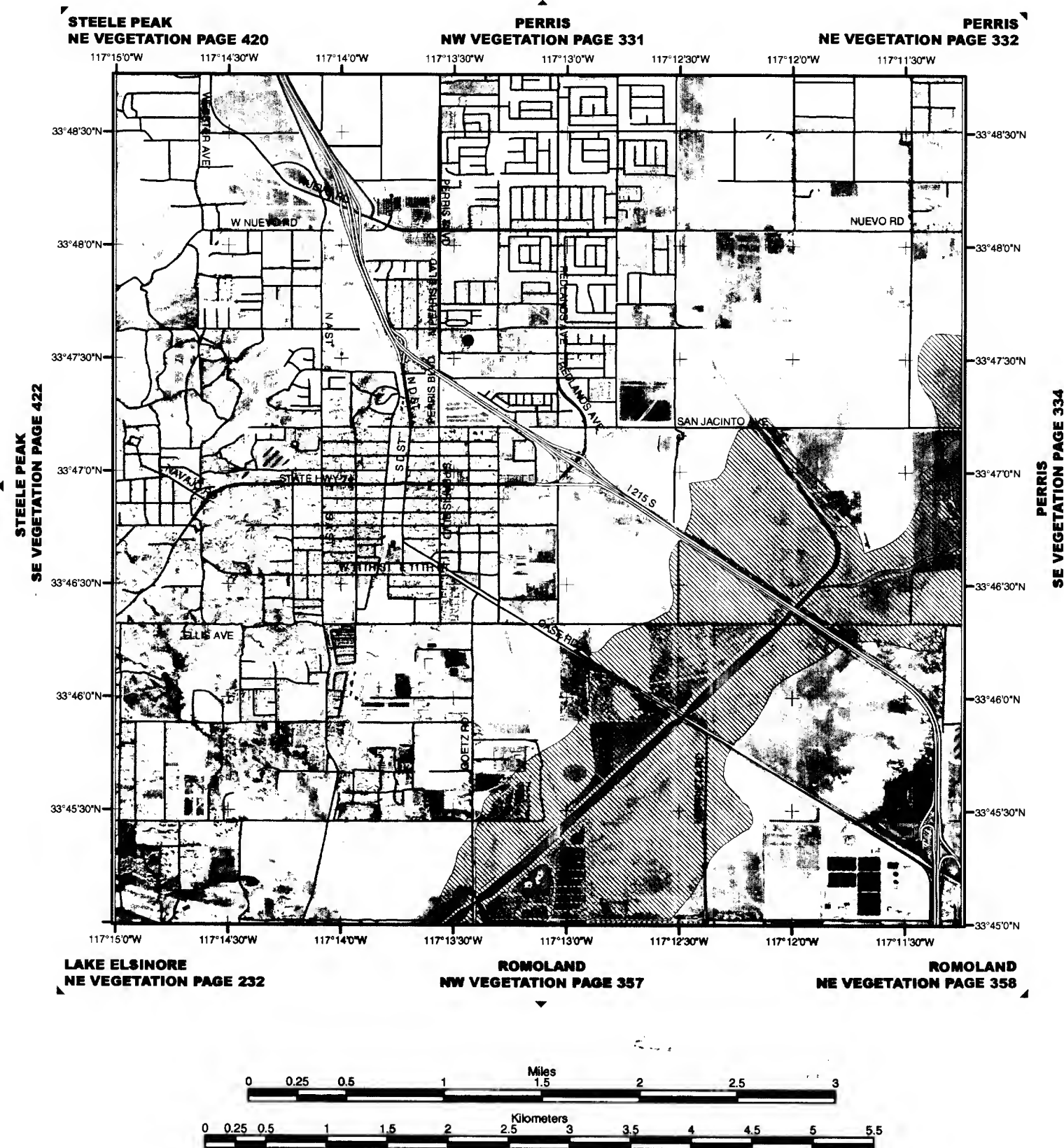


# Perris North East Quarter-Quadrangle

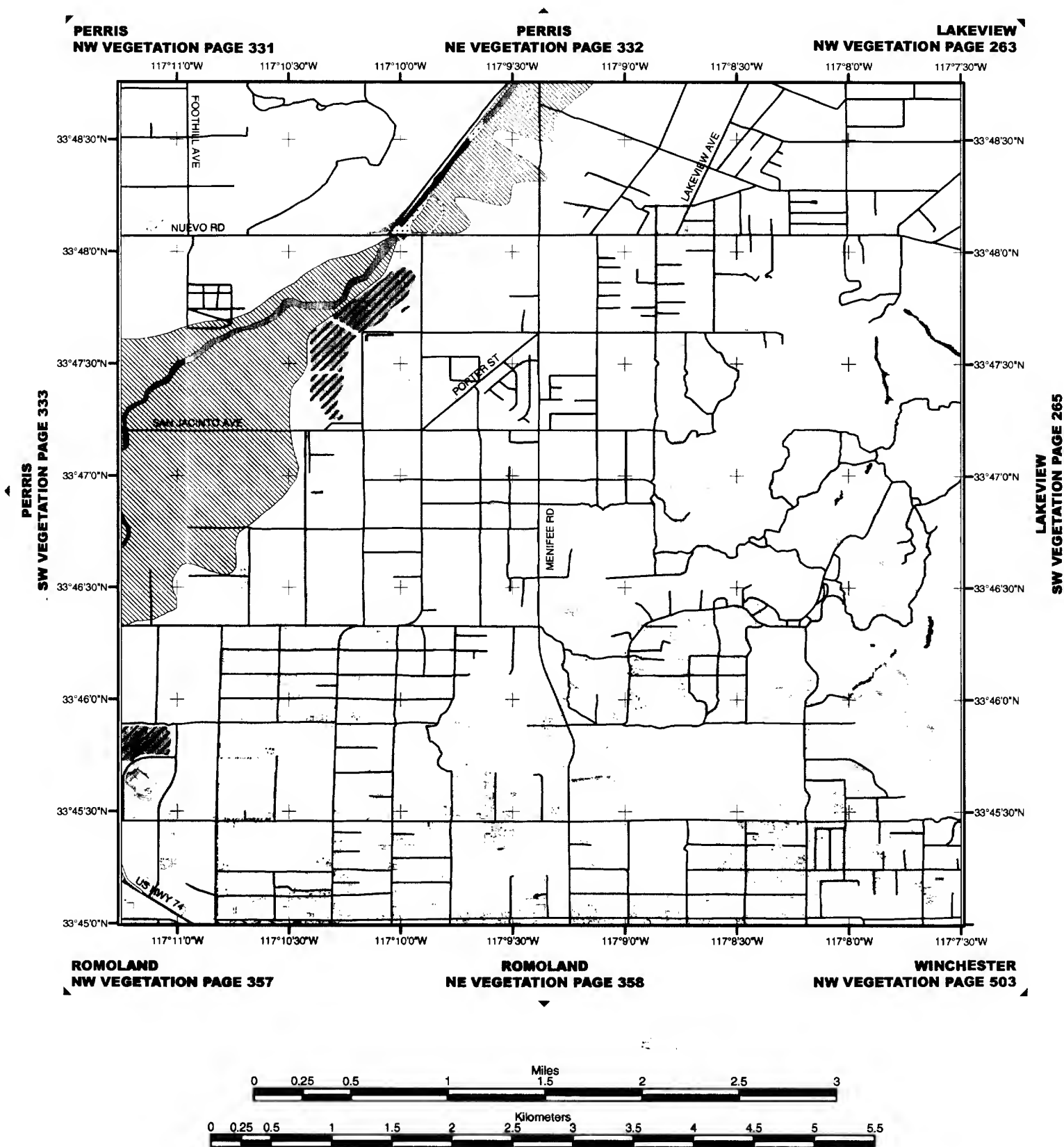
## Vegetation Species Association Units for Aquatic Resources



# Perris South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

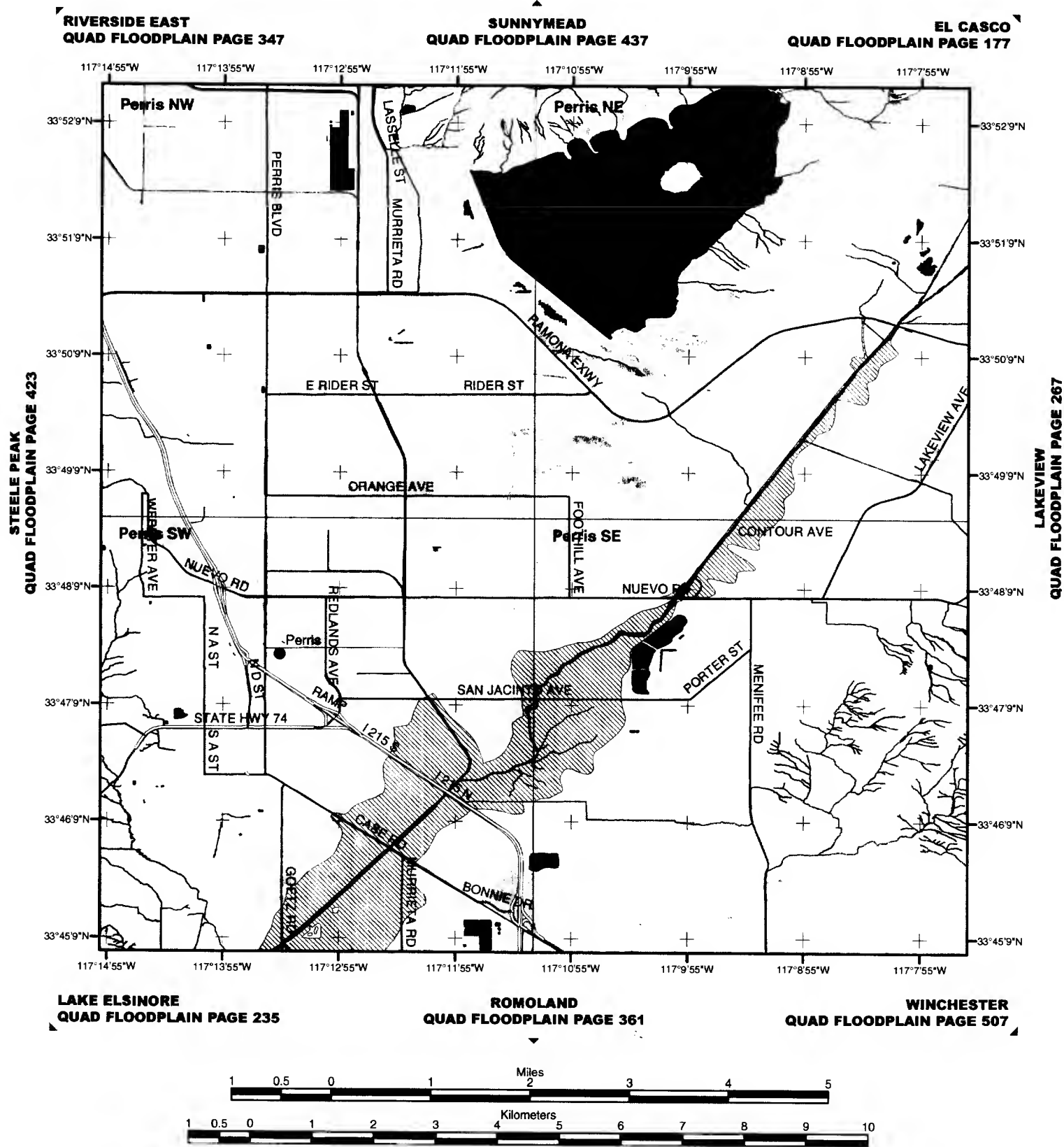


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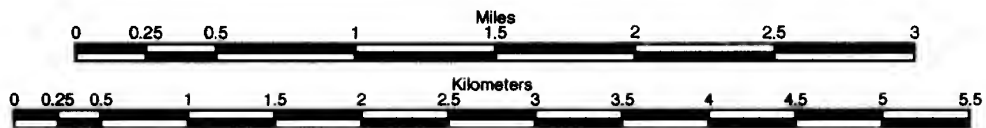
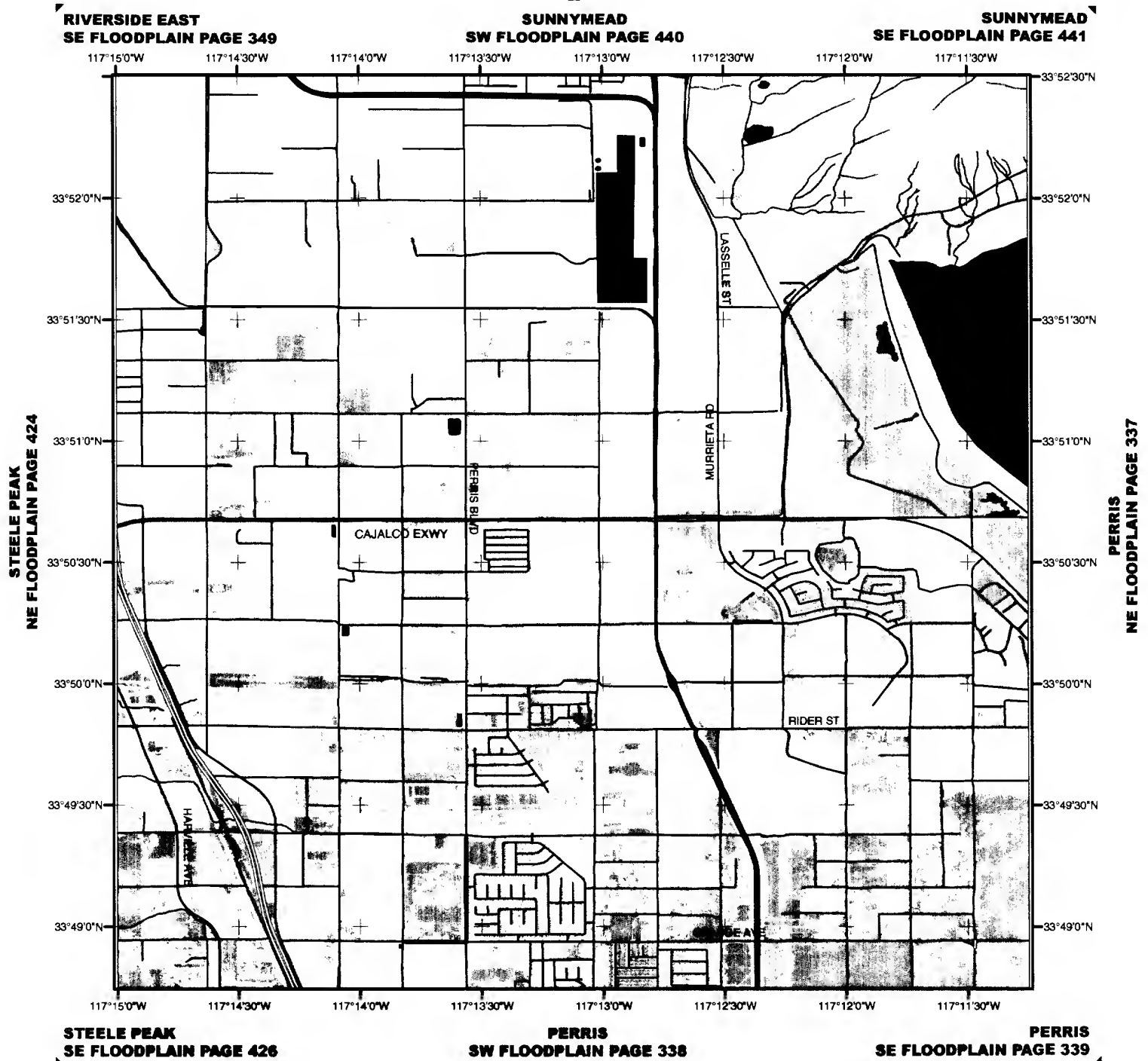


# Perris Quadrangle

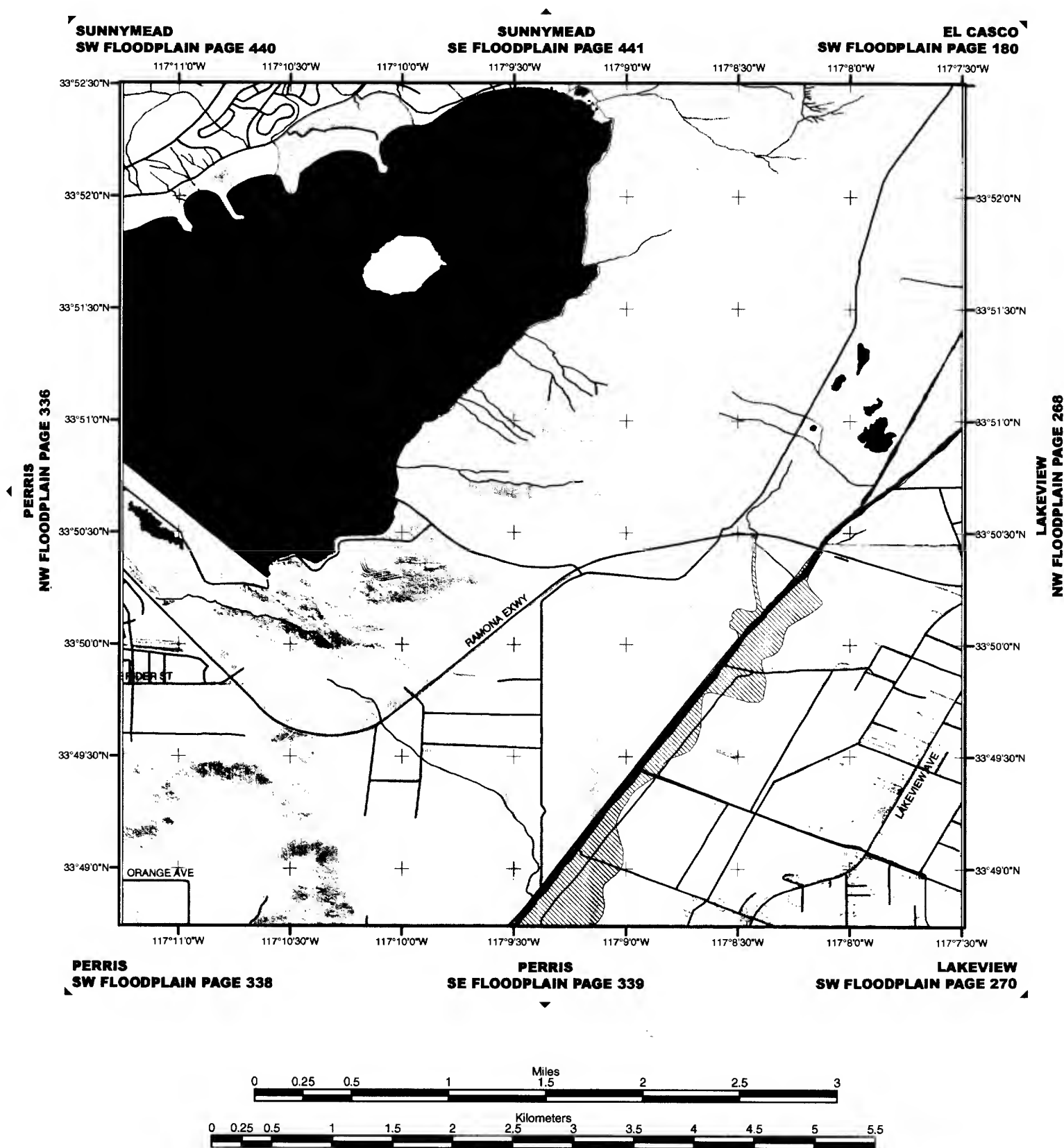
## Hydrogeomorphic Floodplain Units for Aquatic Resources



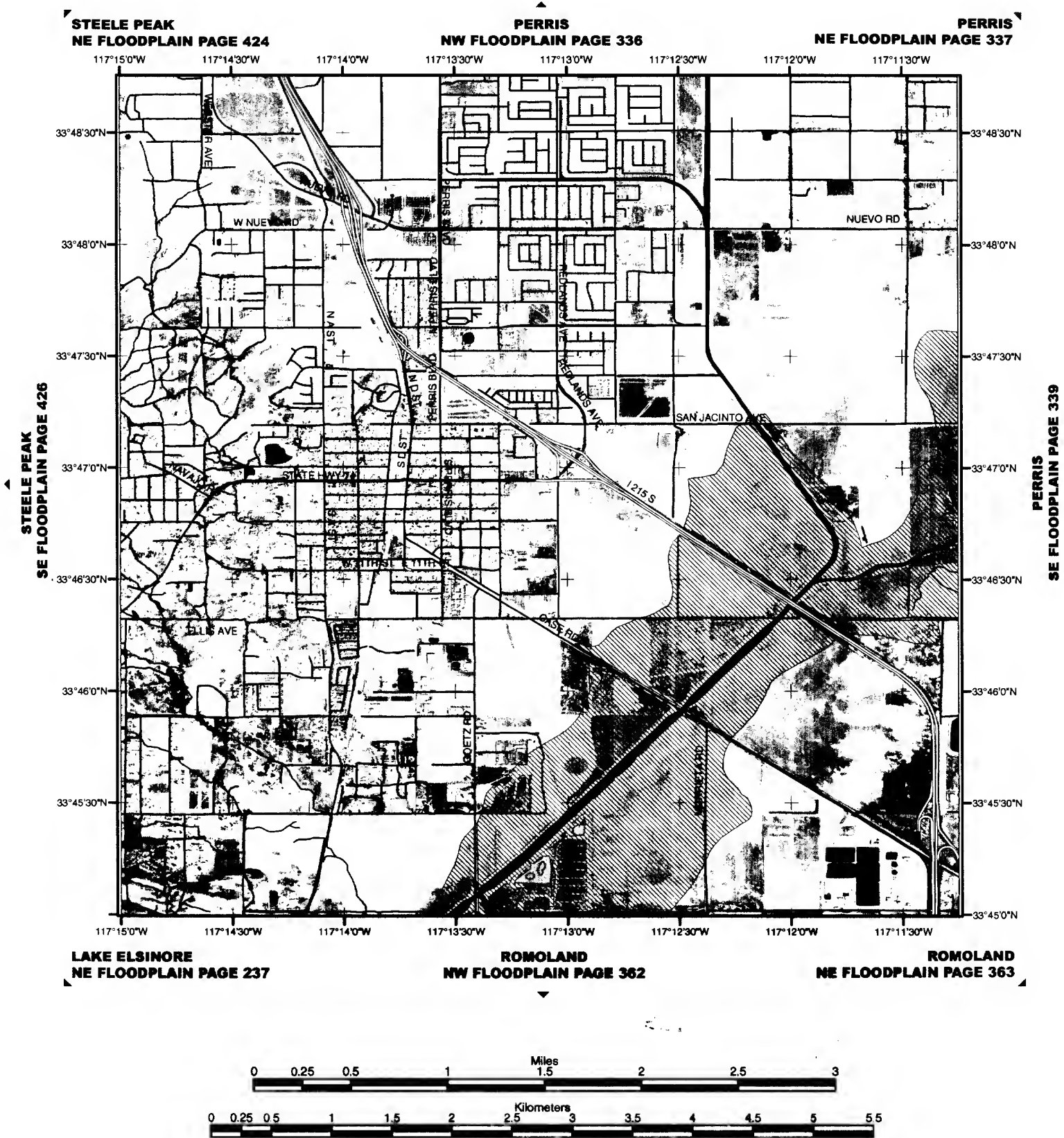
# Perris North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



# Perris North East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

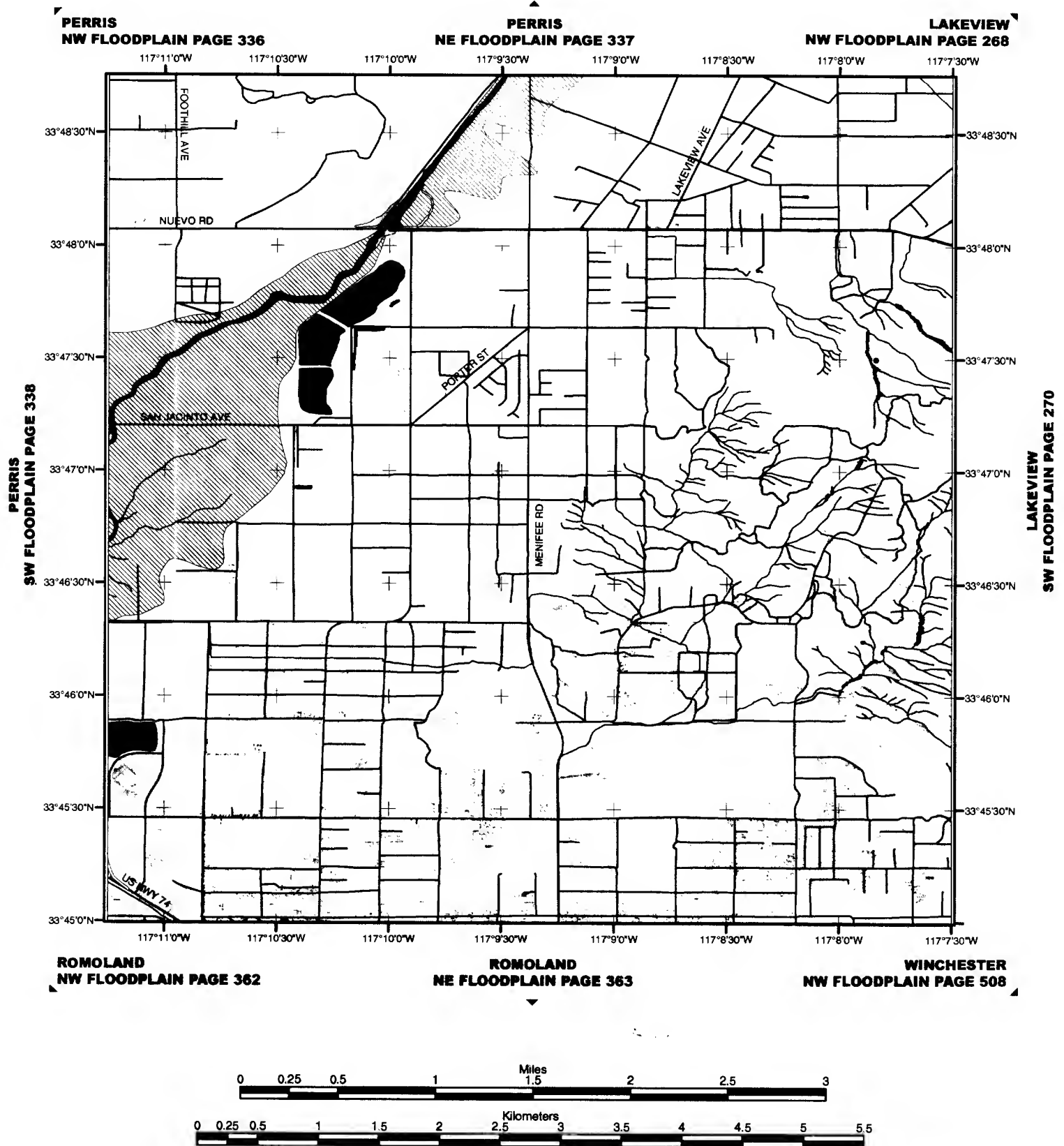


# Perris South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources





# Perris South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

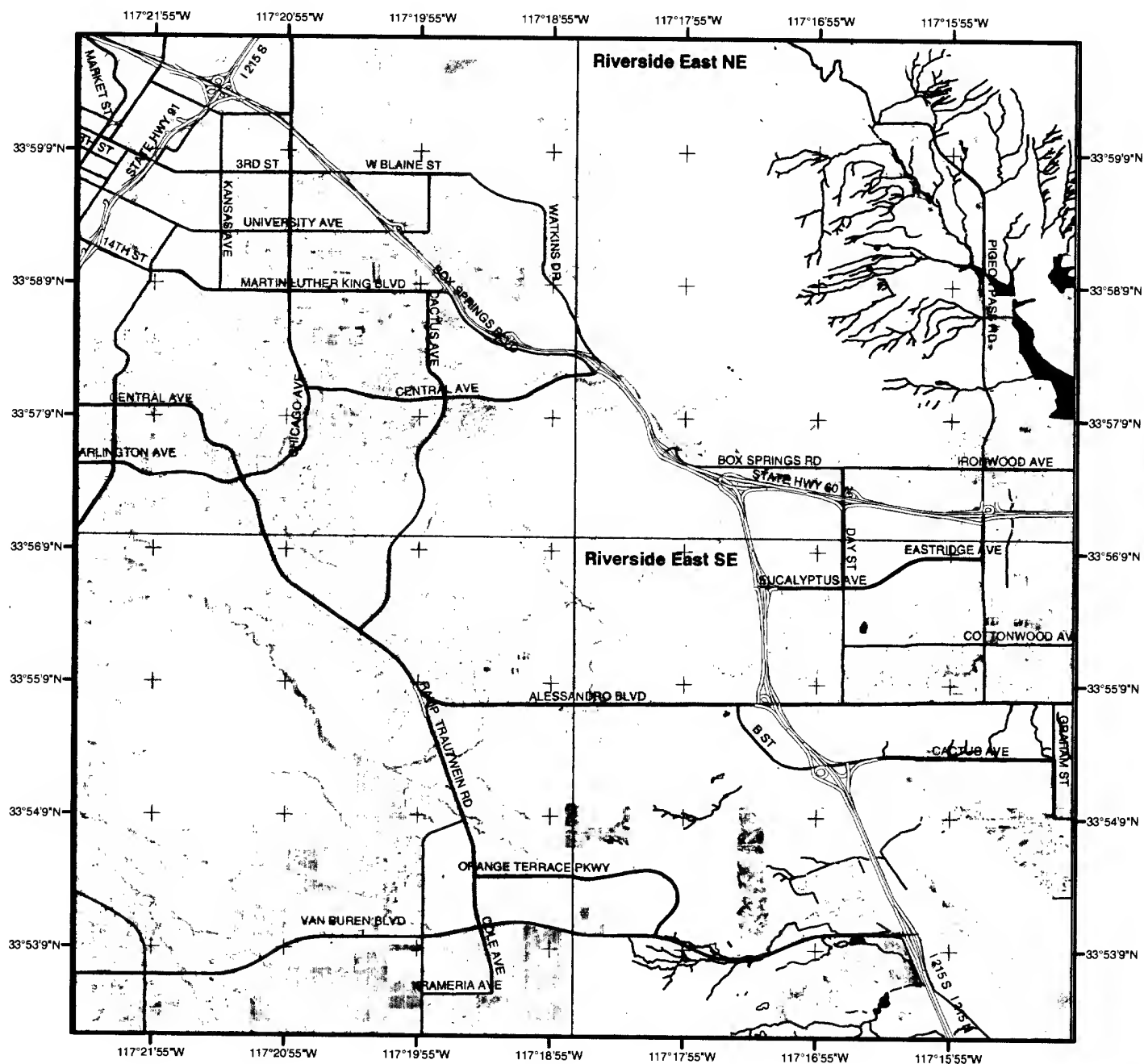






# Riverside East Quadrangle

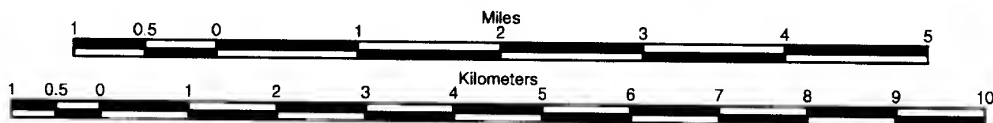
## Regulatory Probability Ratings for Aquatic Resources



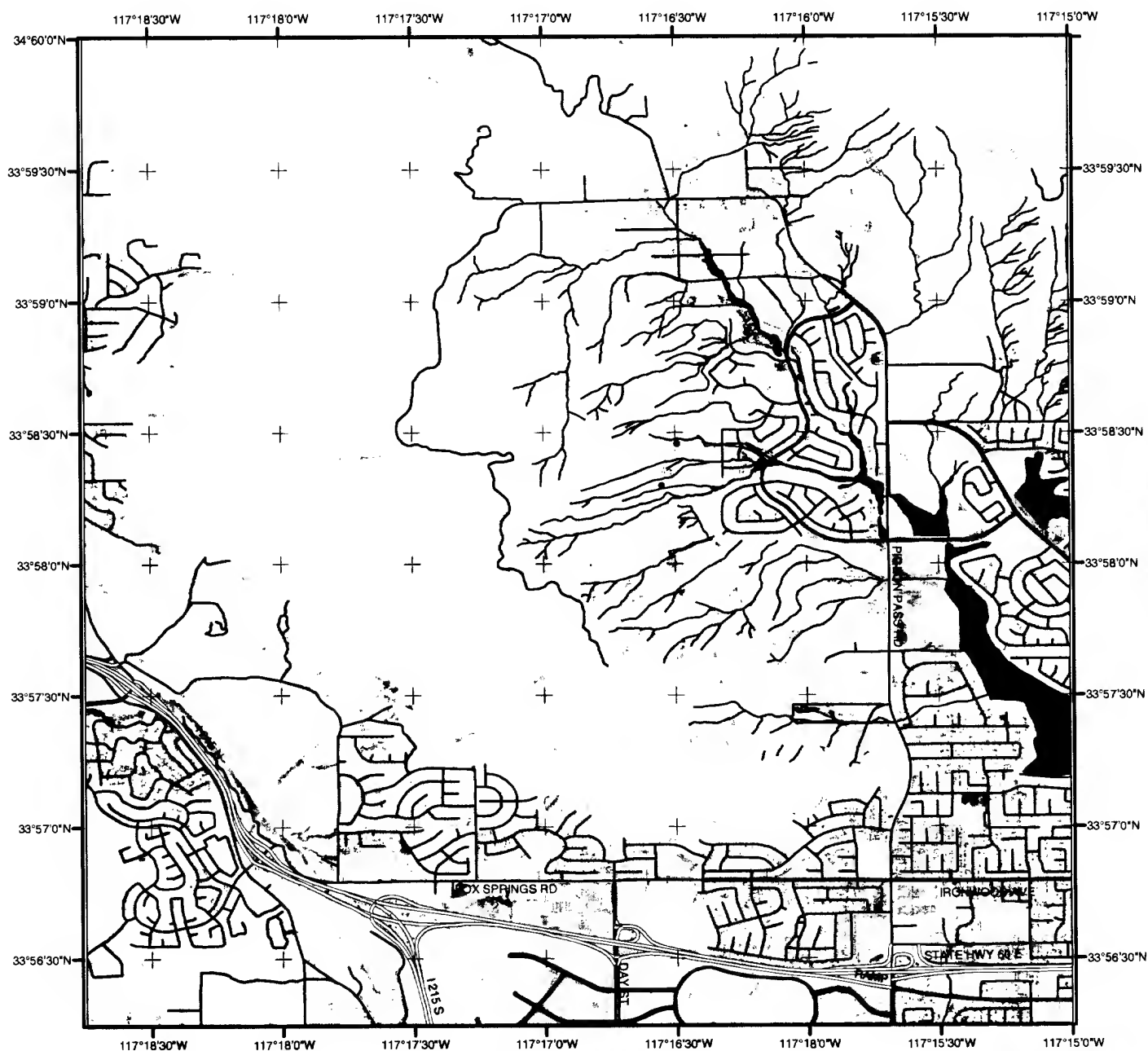
SUNNYMEAD  
QUAD RATINGS PAGE 427

STEELE PEAK  
QUAD RATINGS PAGE 415

PERRIS  
QUAD RATINGS PAGE 325



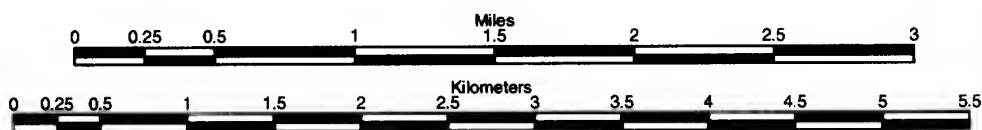
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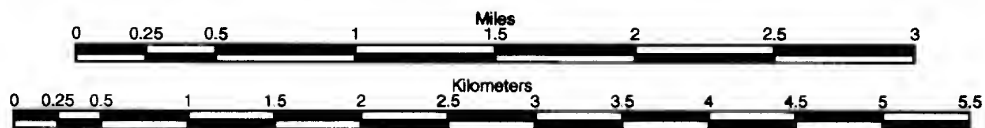
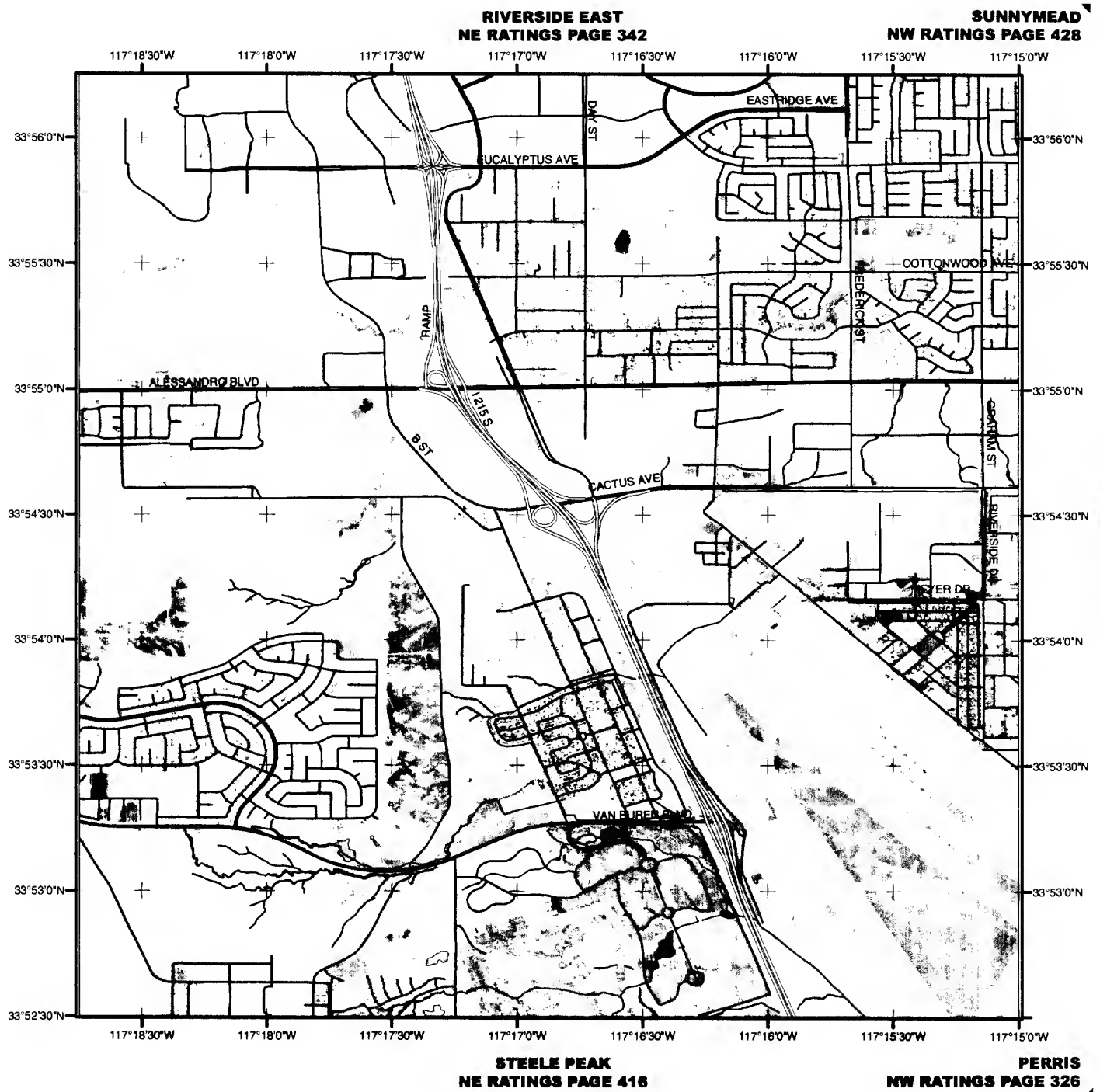
SUNNYMEAD  
NW RATINGS PAGE 428

RIVERSIDE EAST  
SE RATINGS PAGE 343

SUNNYMEAD  
SW RATINGS PAGE 430

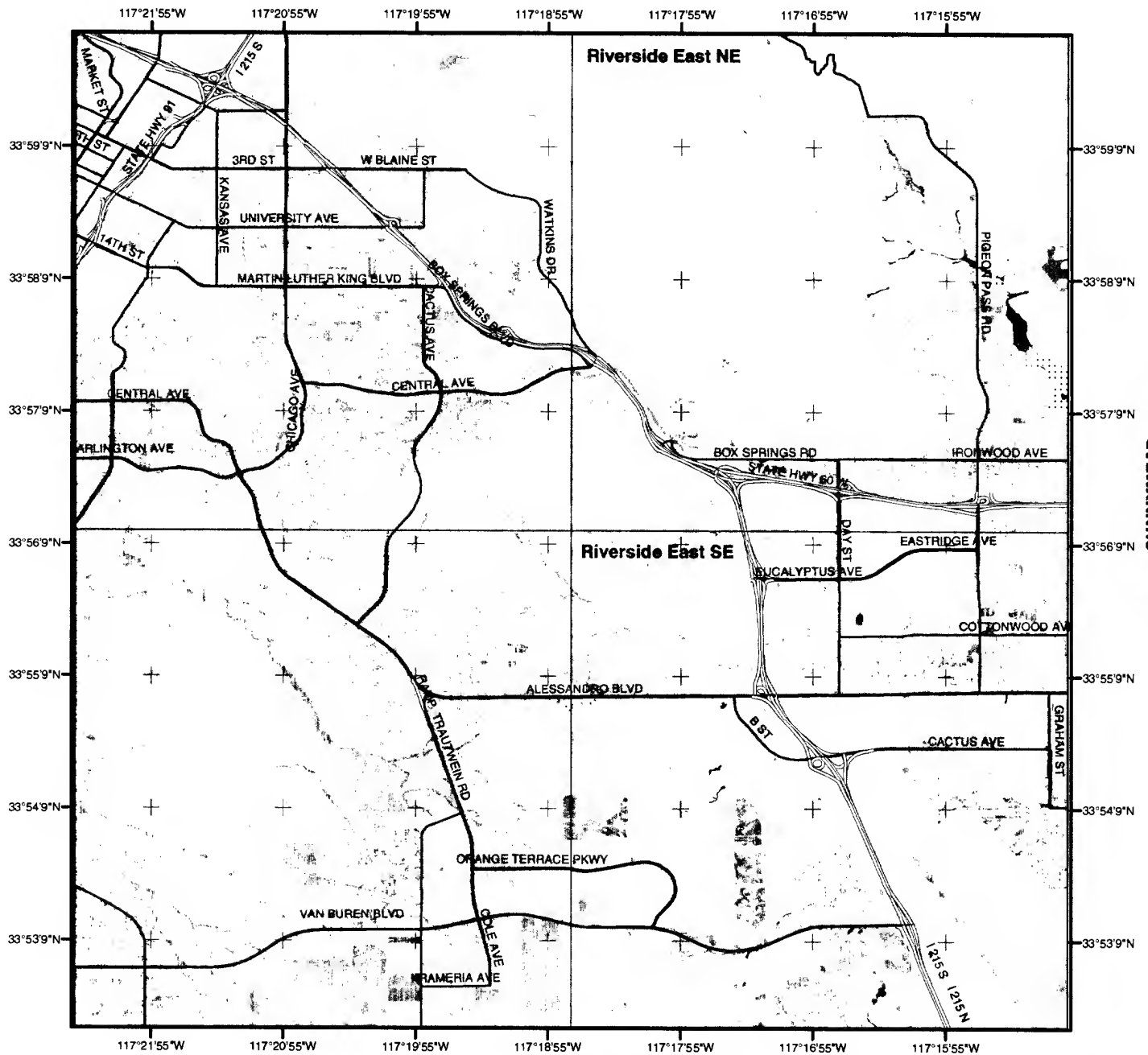


# Riverside East South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



# Riverside East Quadrangle

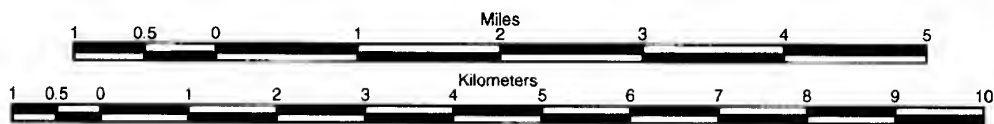
## Vegetation Species Association Units for Aquatic Resources



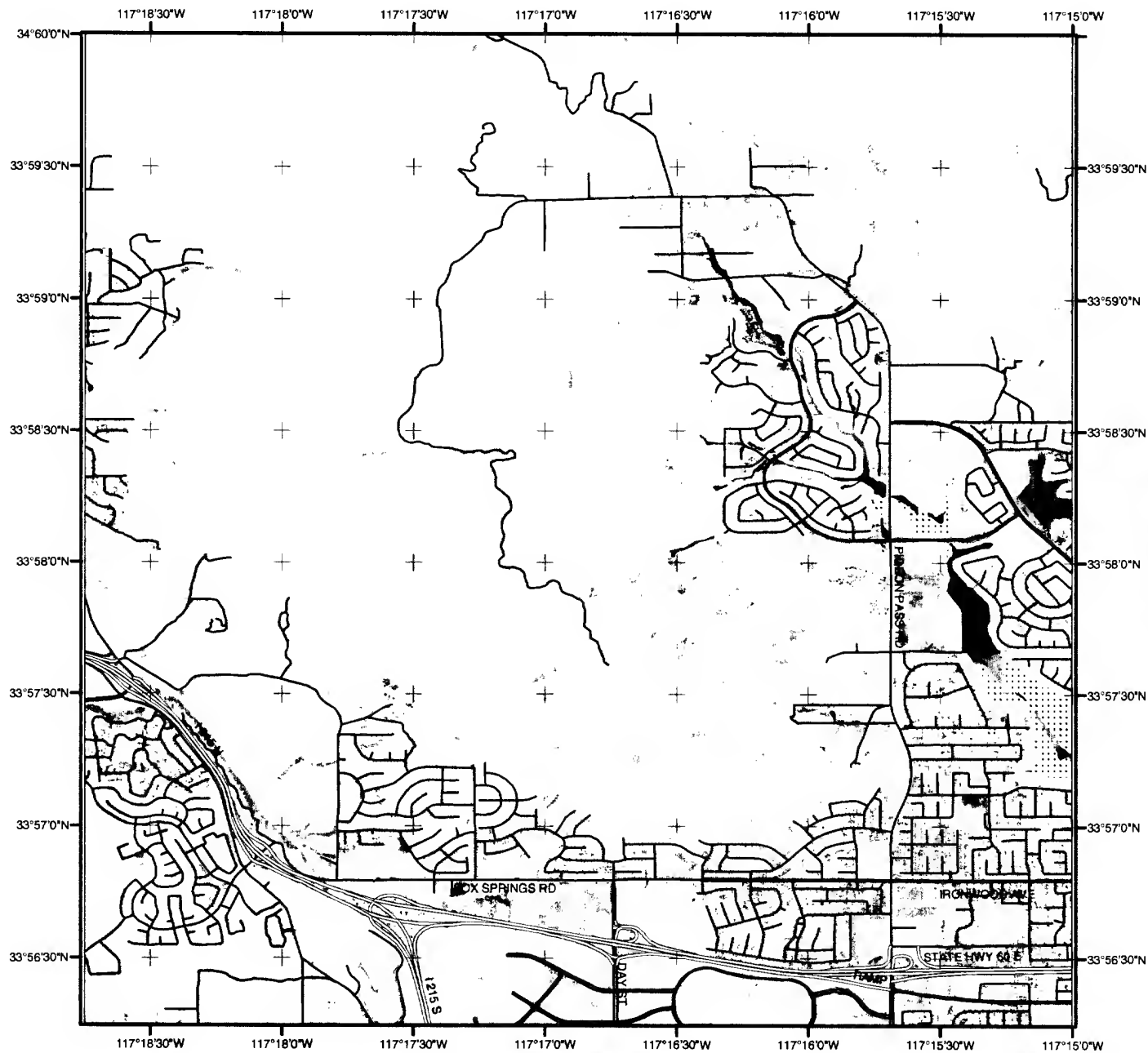
SUNNYMEAD  
QUAD VEGETATION PAGE 432

STEELE PEAK  
QUAD VEGETATION PAGE 419

PERRIS  
QUAD VEGETATION PAGE 330



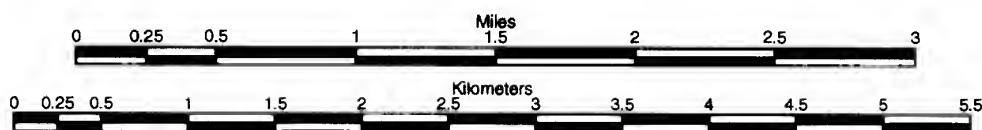
# Riverside East North East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



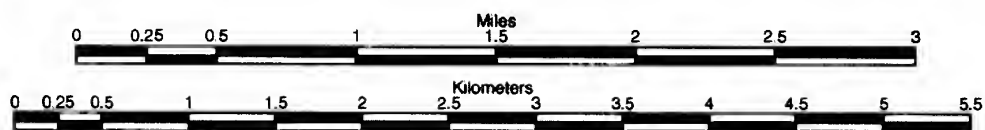
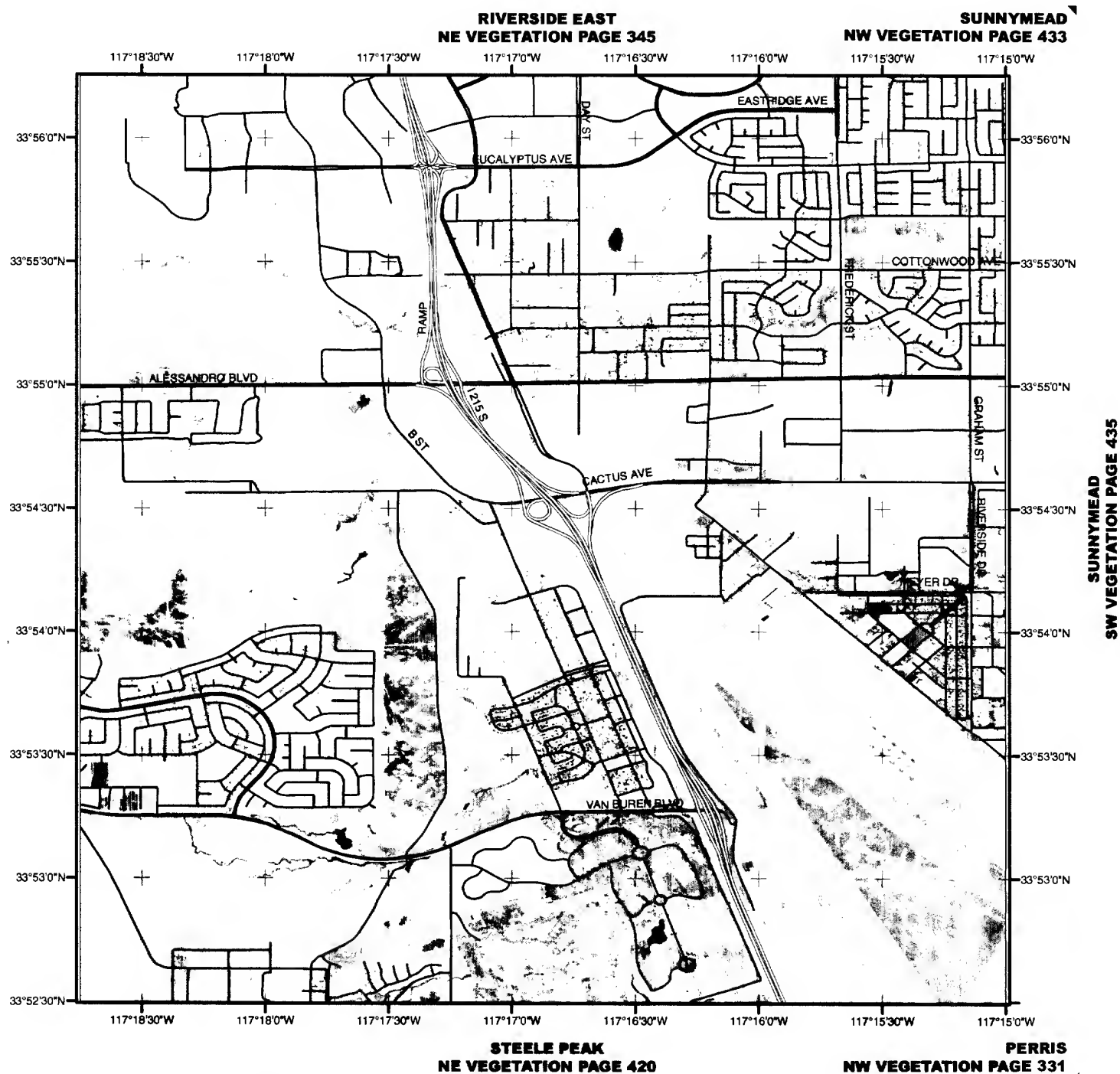
SUNNYMEAD  
NW VEGETATION PAGE 433

RIVERSIDE EAST  
SE VEGETATION PAGE 346

SUNNYMEAD  
SW VEGETATION PAGE 435

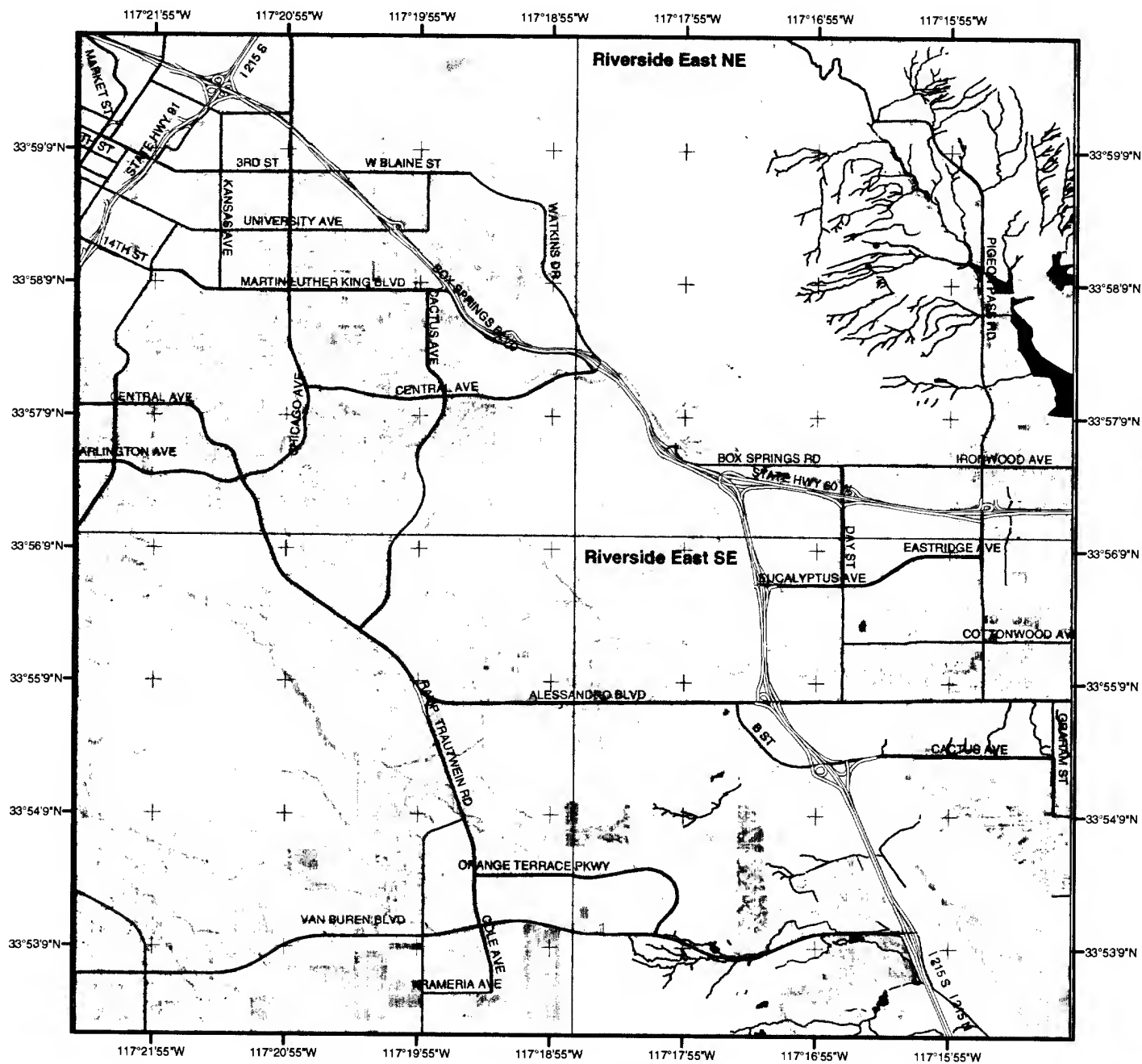


# Riverside East South East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



# Riverside East Quadrangle

## Hydrogeomorphic Floodplain Units for Aquatic Resources



SUNNYMEAD  
QUAD FLOODPLAIN PAGE 437

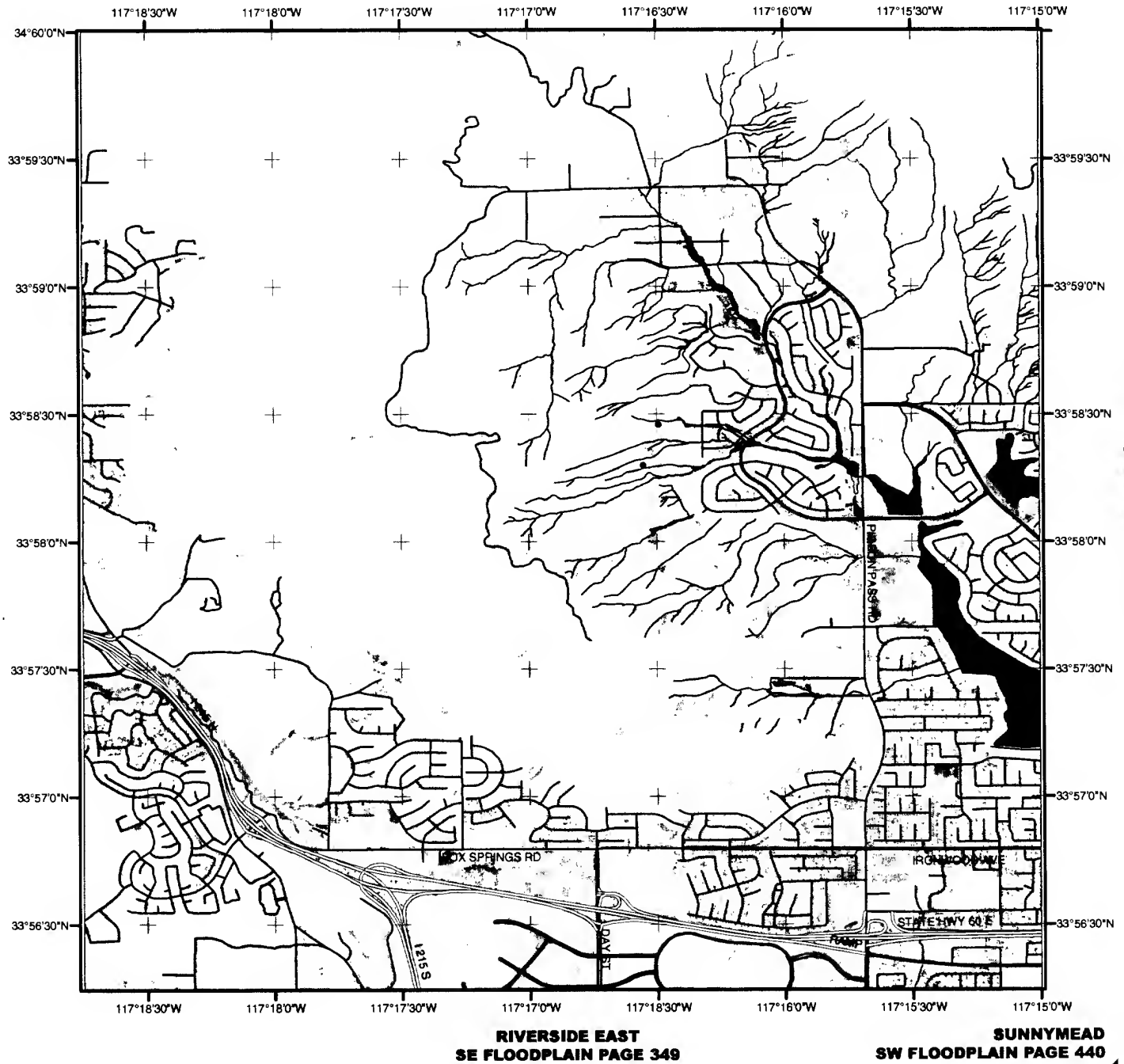
STEELE PEAK  
QUAD FLOODPLAIN PAGE 423

PERRIS  
QUAD FLOODPLAIN PAGE 335

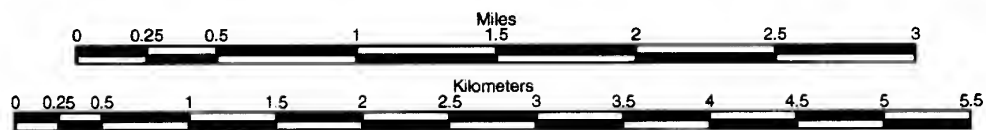




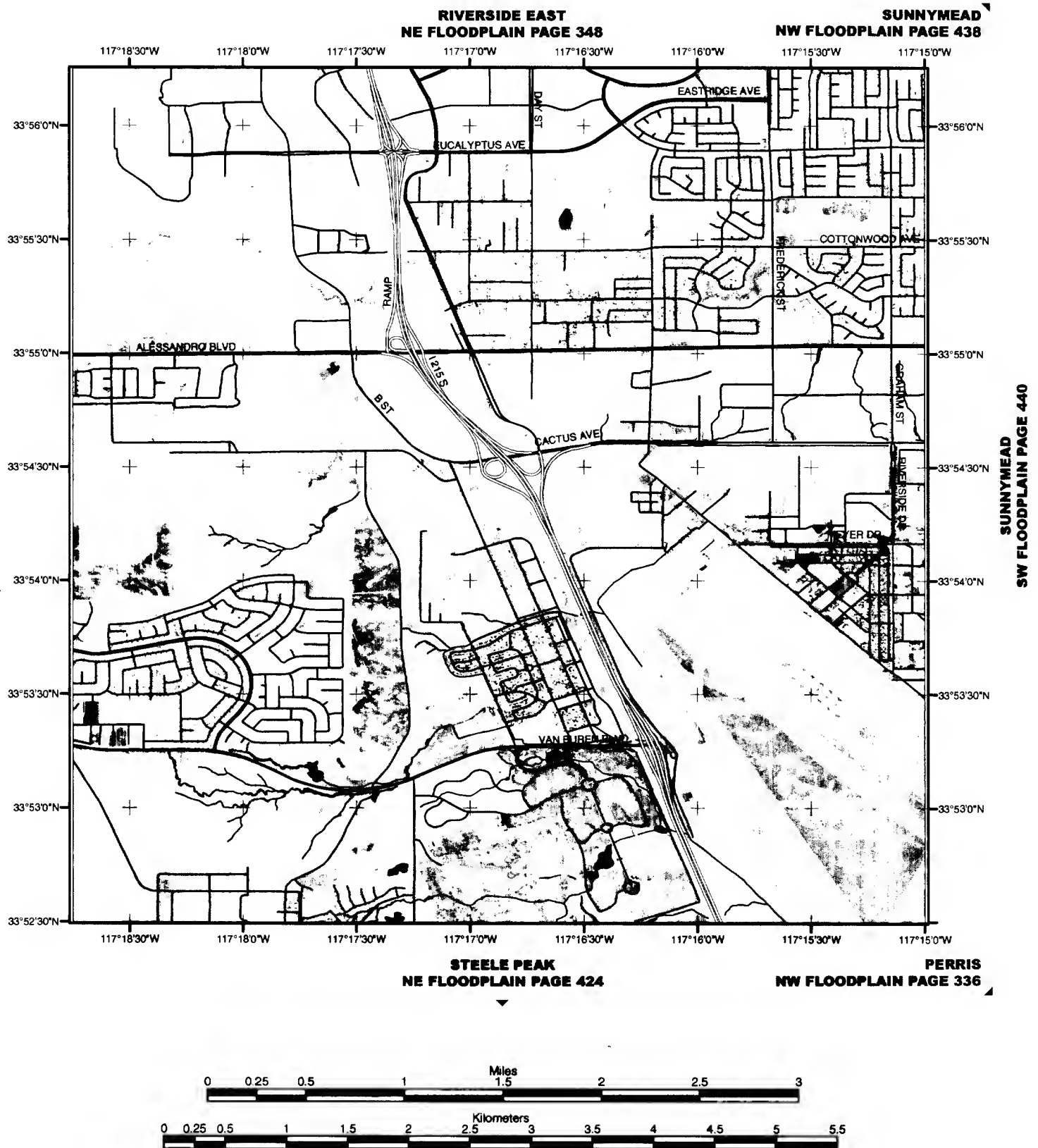
# Riverside East North East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



SUNNYMEAD  
NW FLOODPLAIN PAGE 438



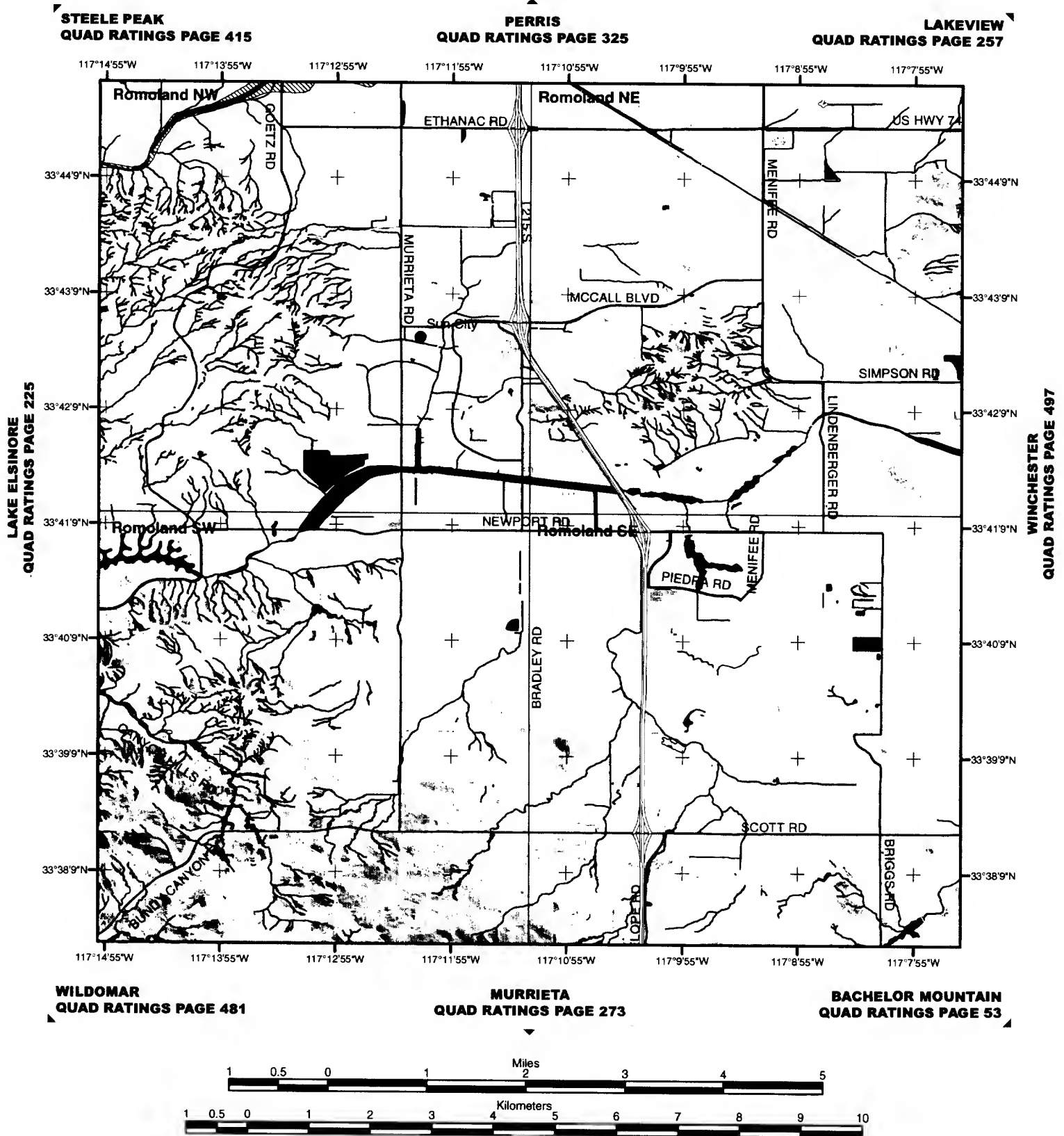
# Riverside East South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



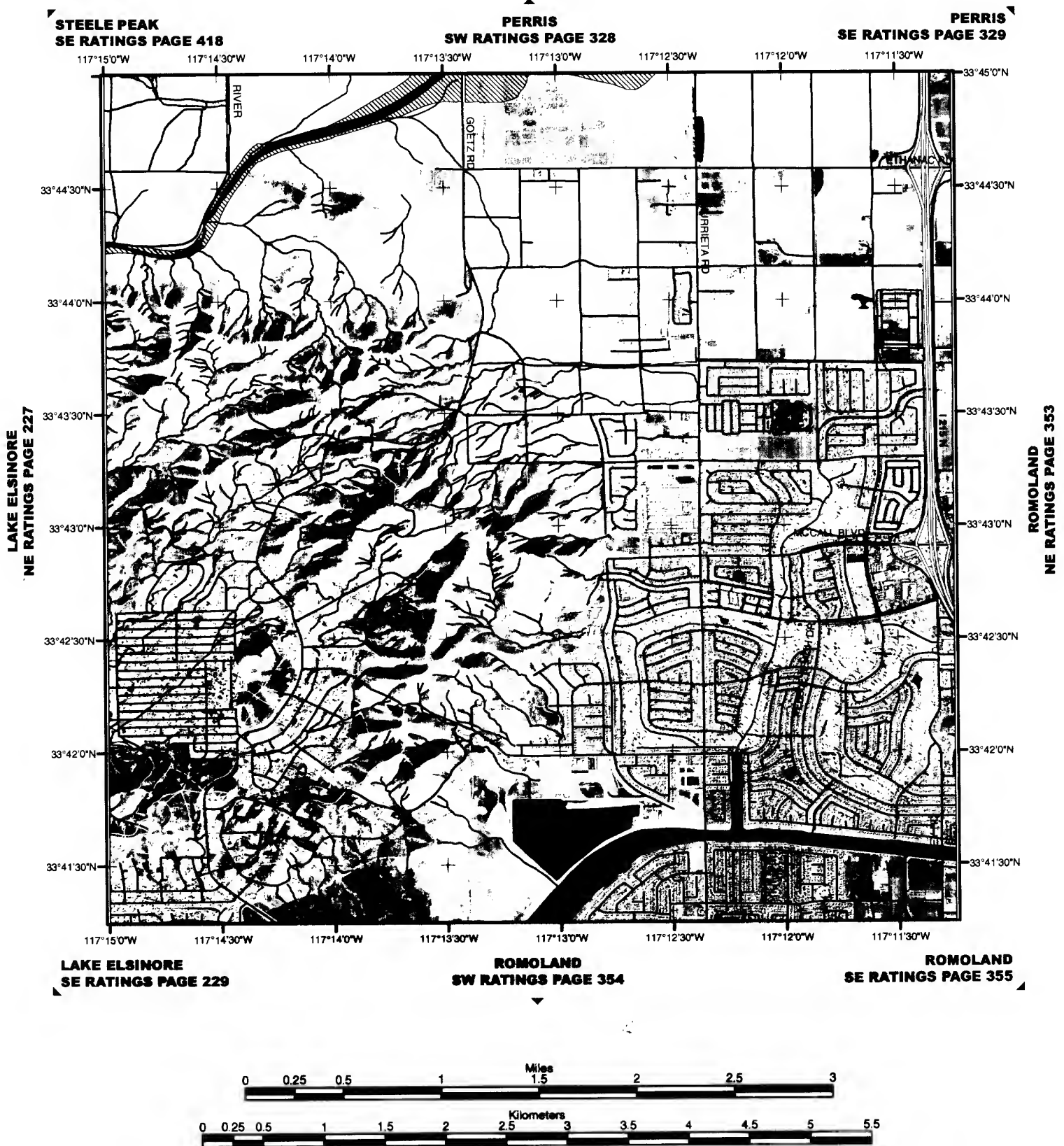


# Romoland Quadrangle

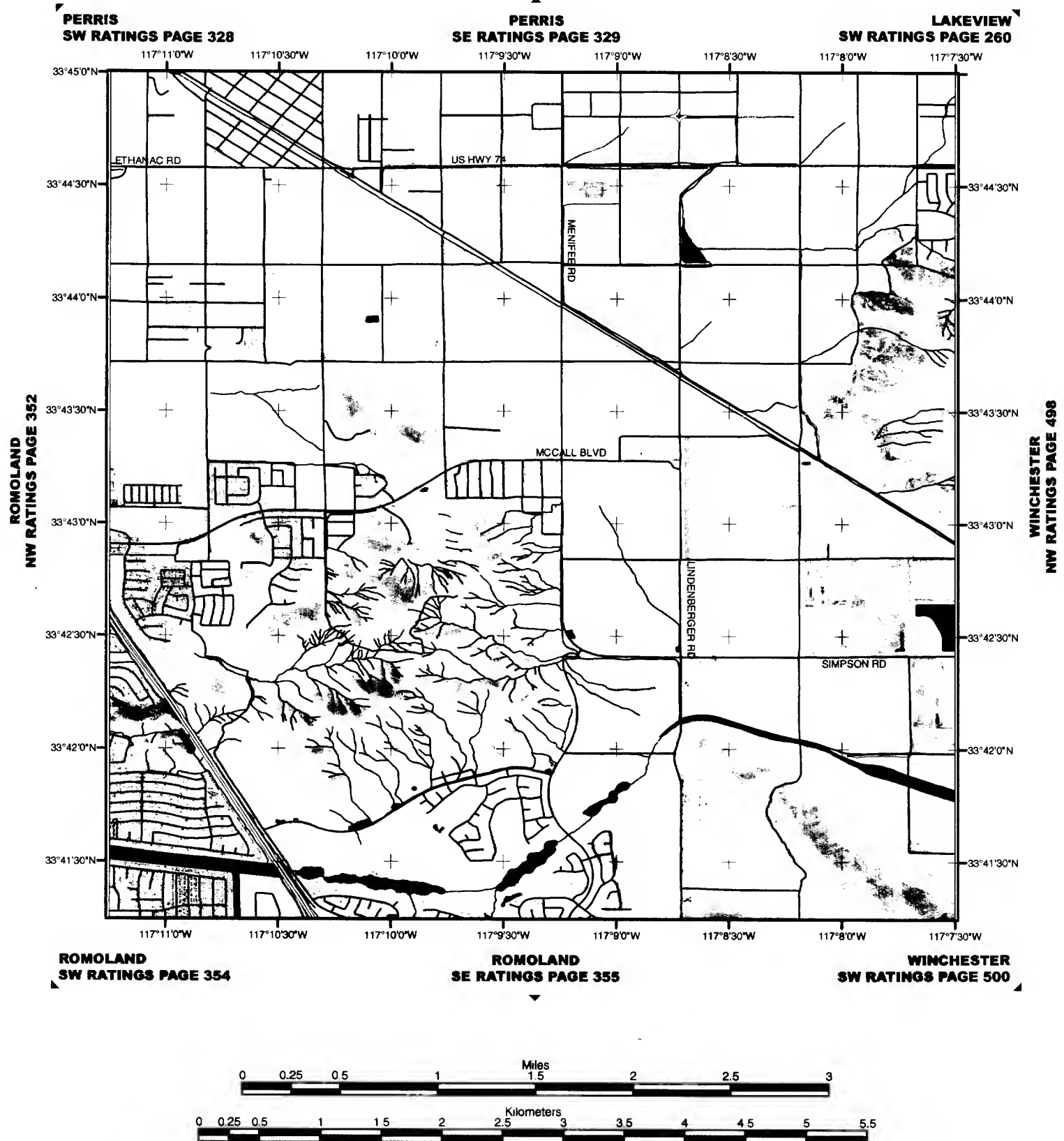
## Regulatory Probability Ratings for Aquatic Resources



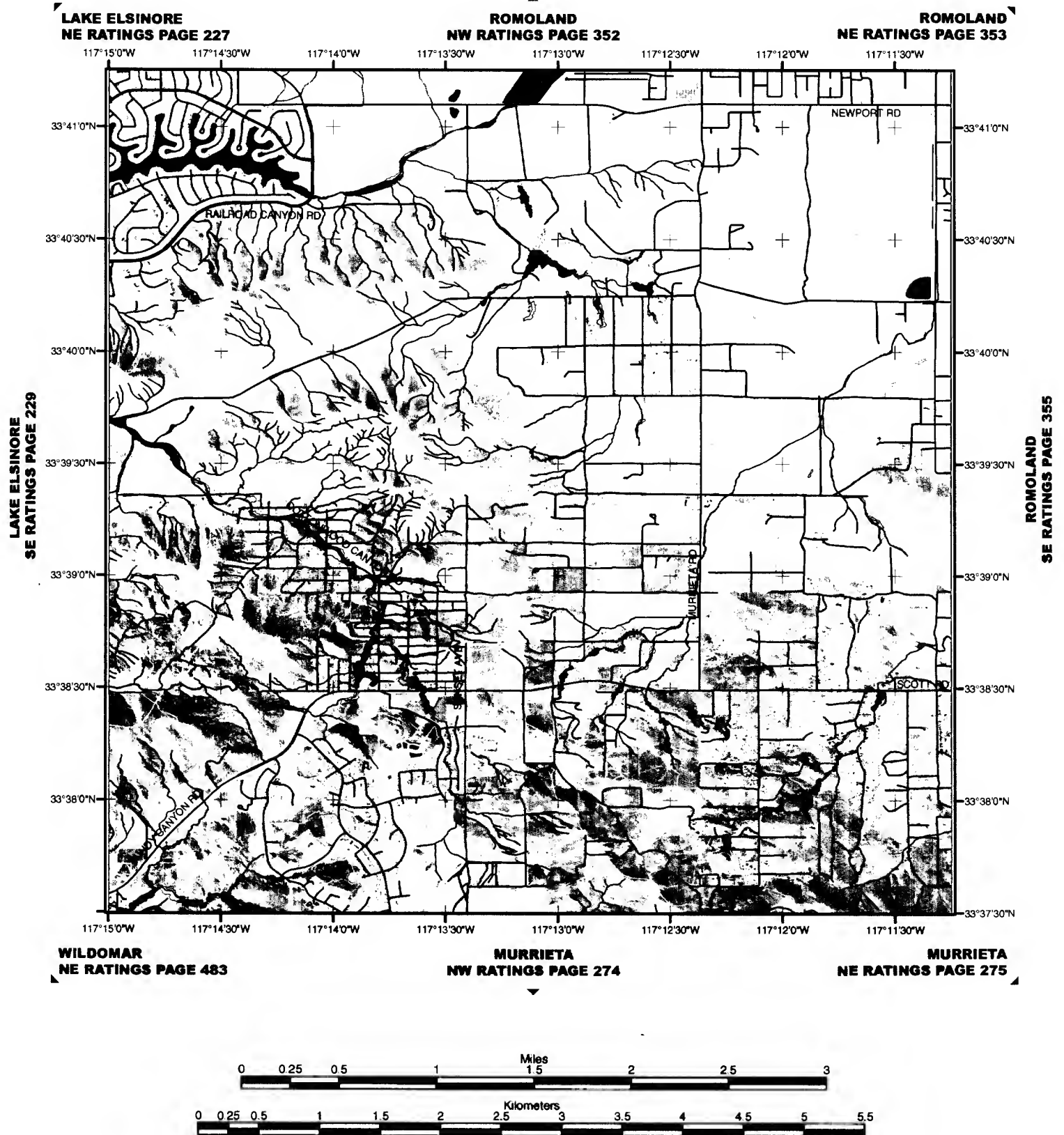
# Romoland North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



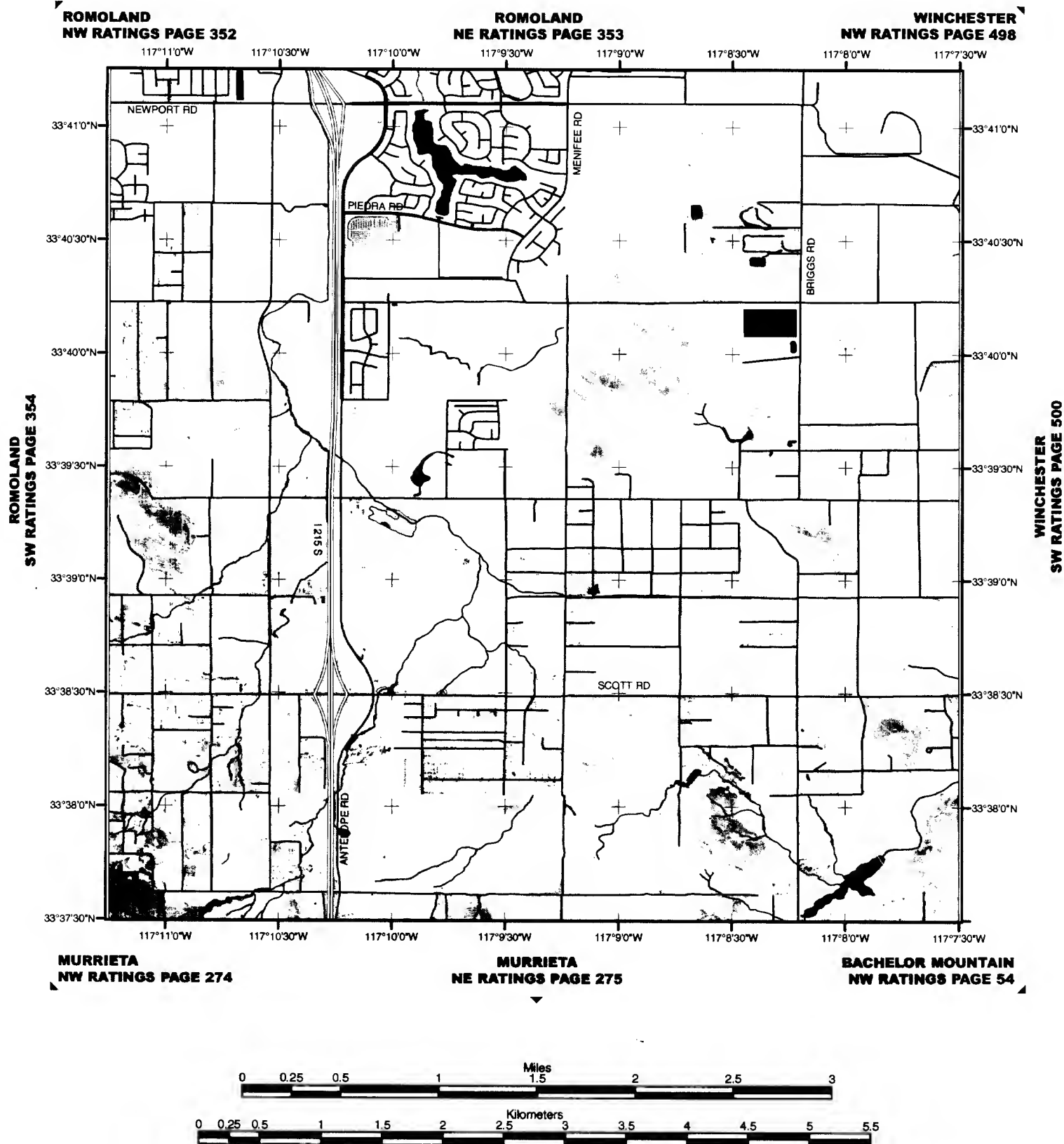
# Romoland North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



# Romoland South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



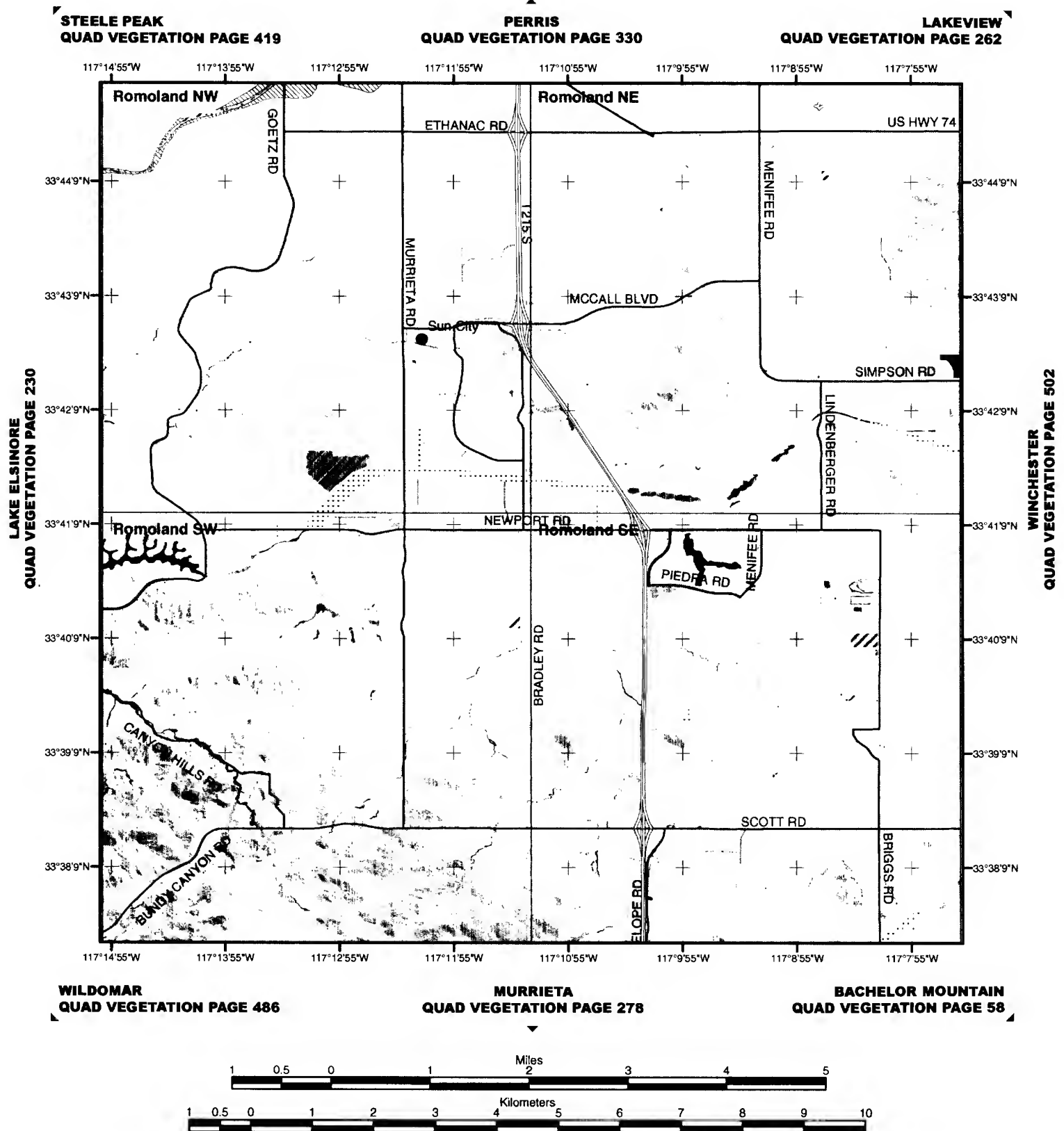
# Romoland South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



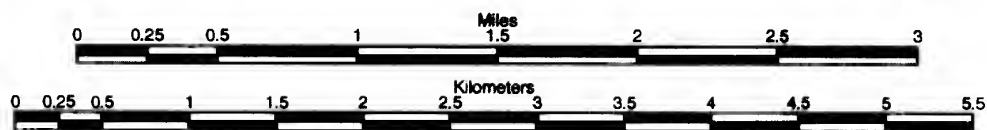
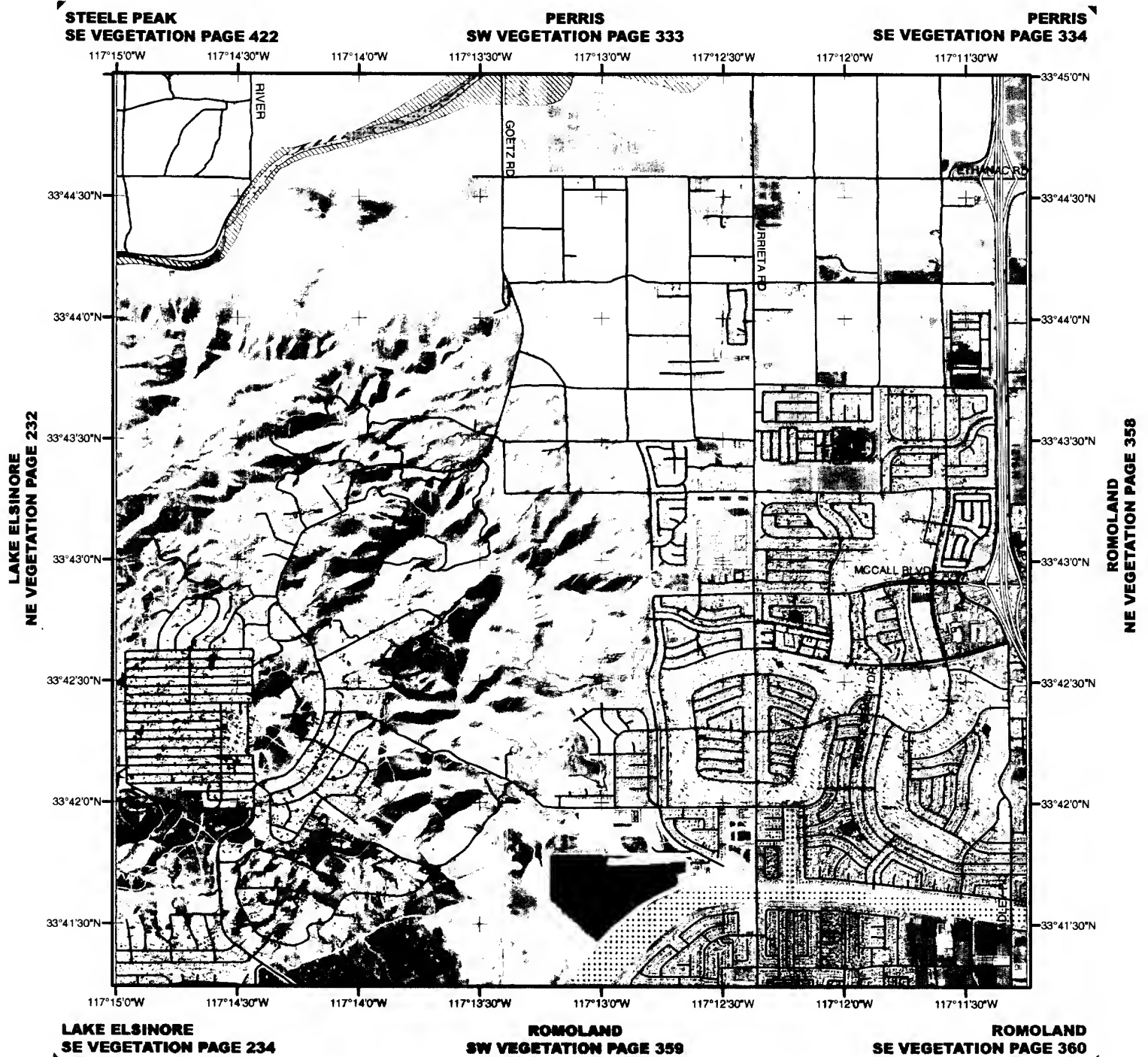


# Romoland Quadrangle

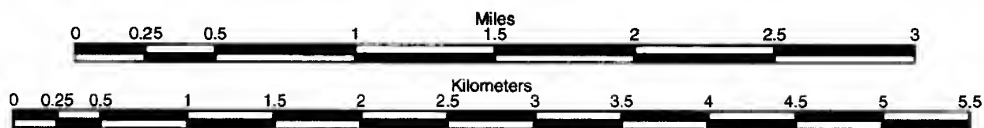
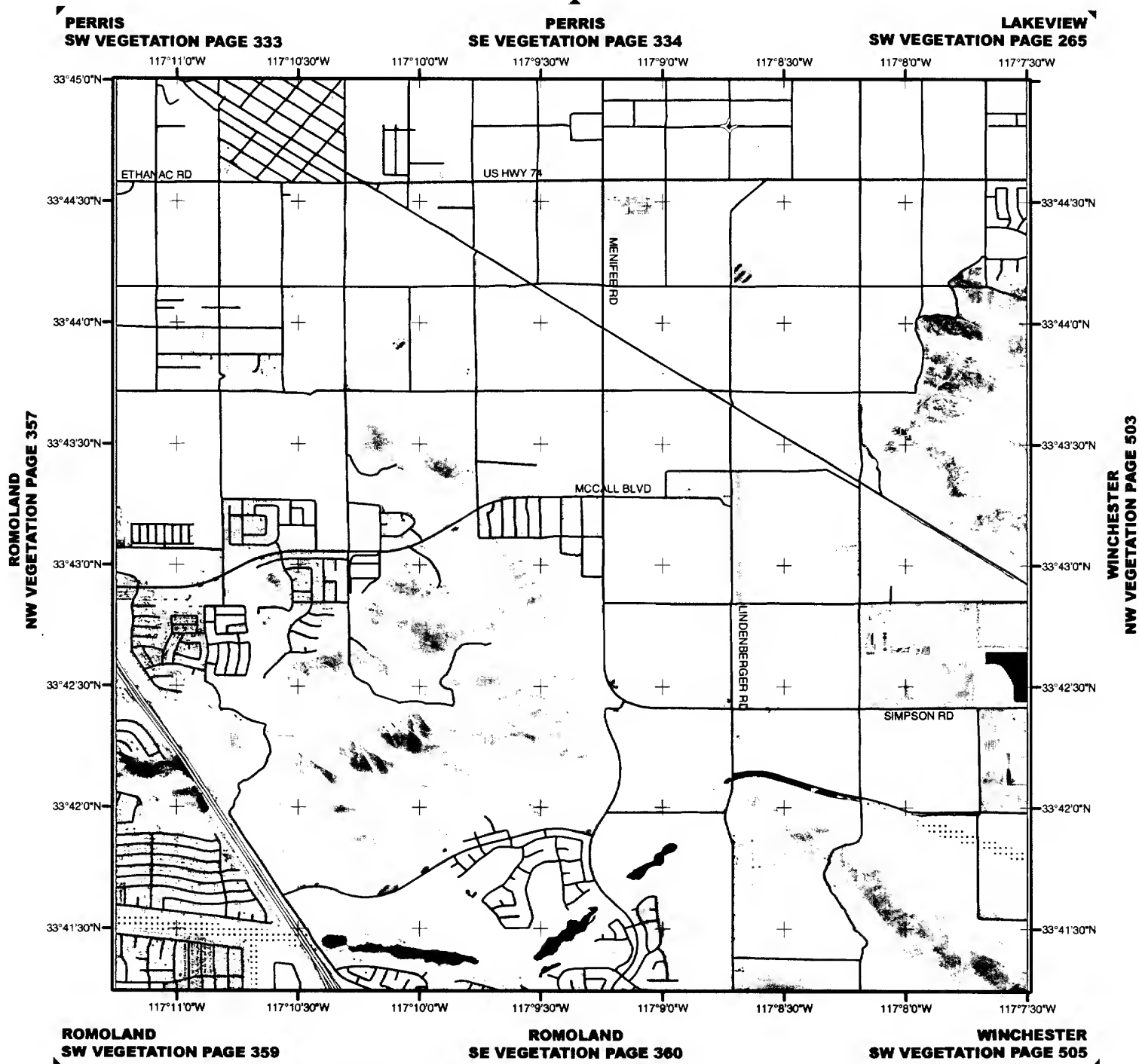
## Vegetation Species Association Units for Aquatic Resources



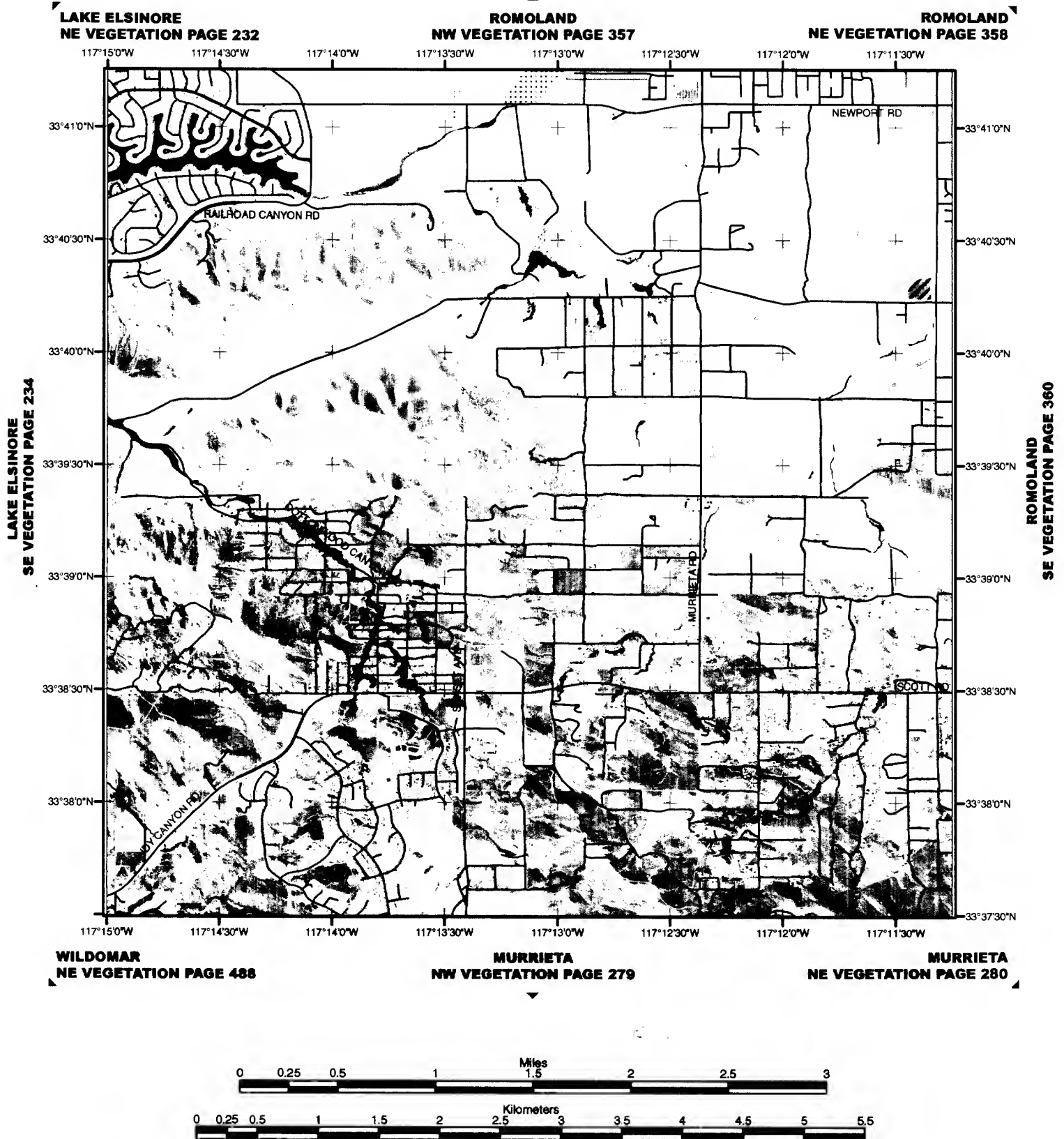
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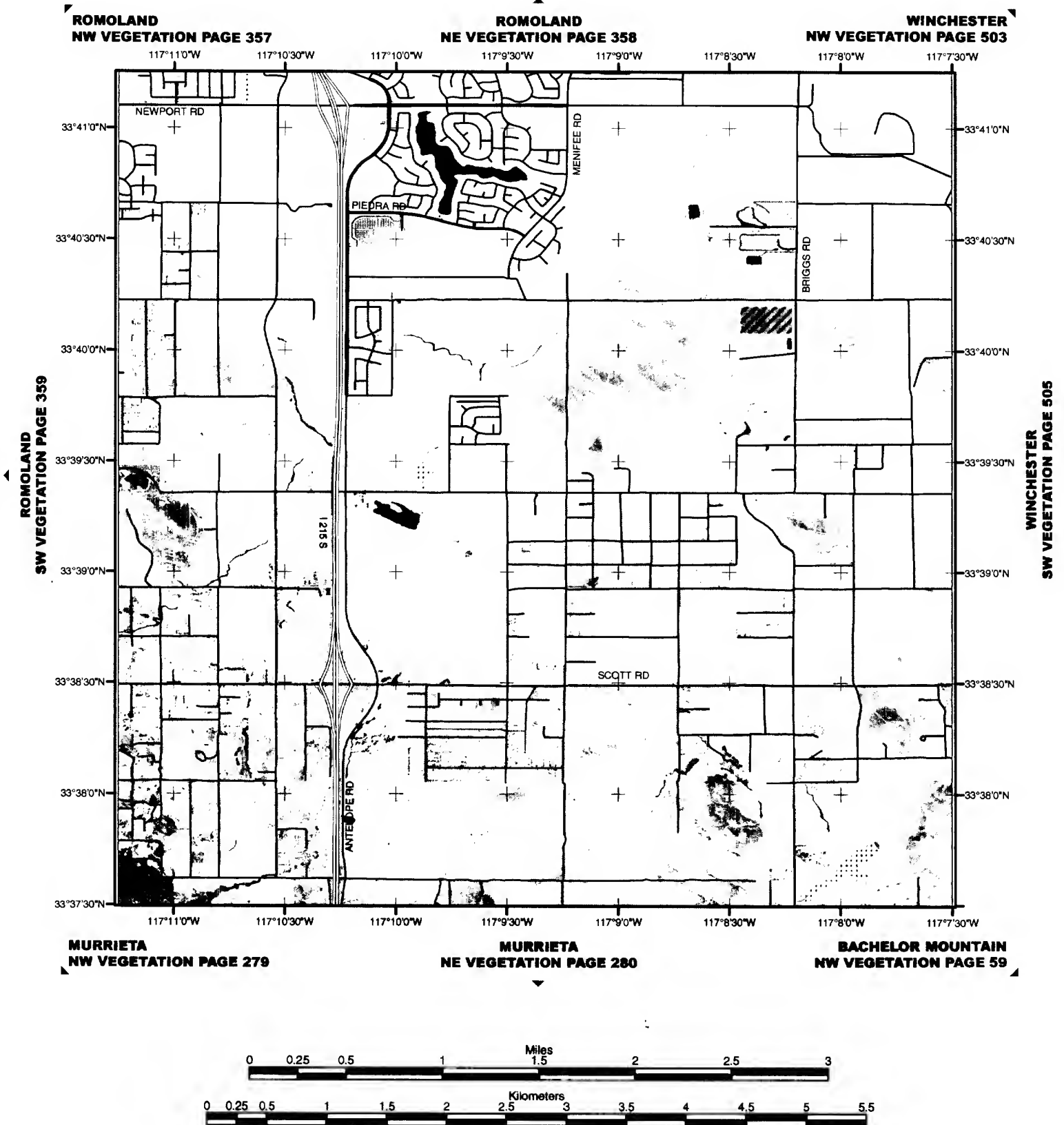
# Romoland North East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



# Romoland South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

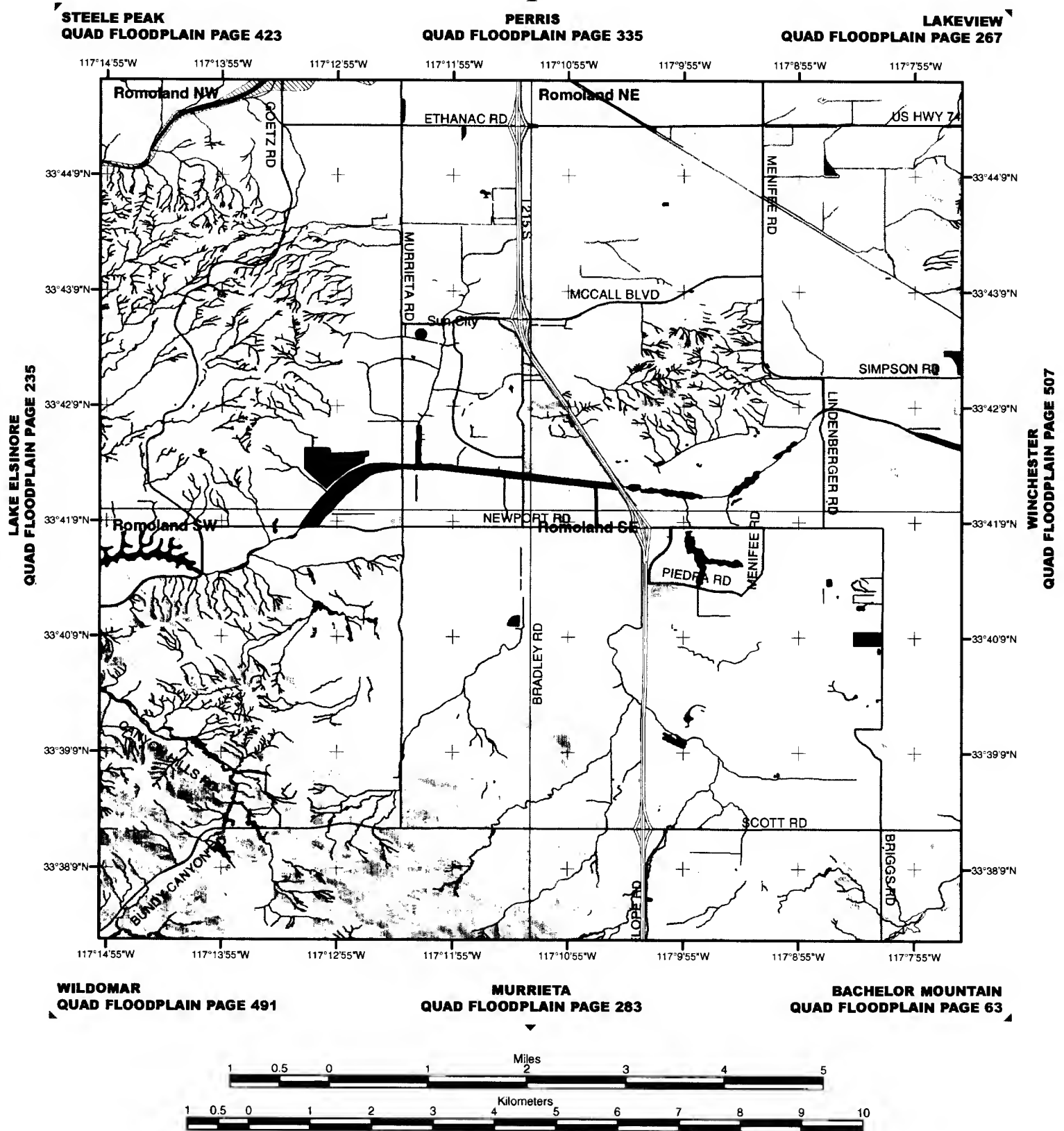


# Romoland South East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

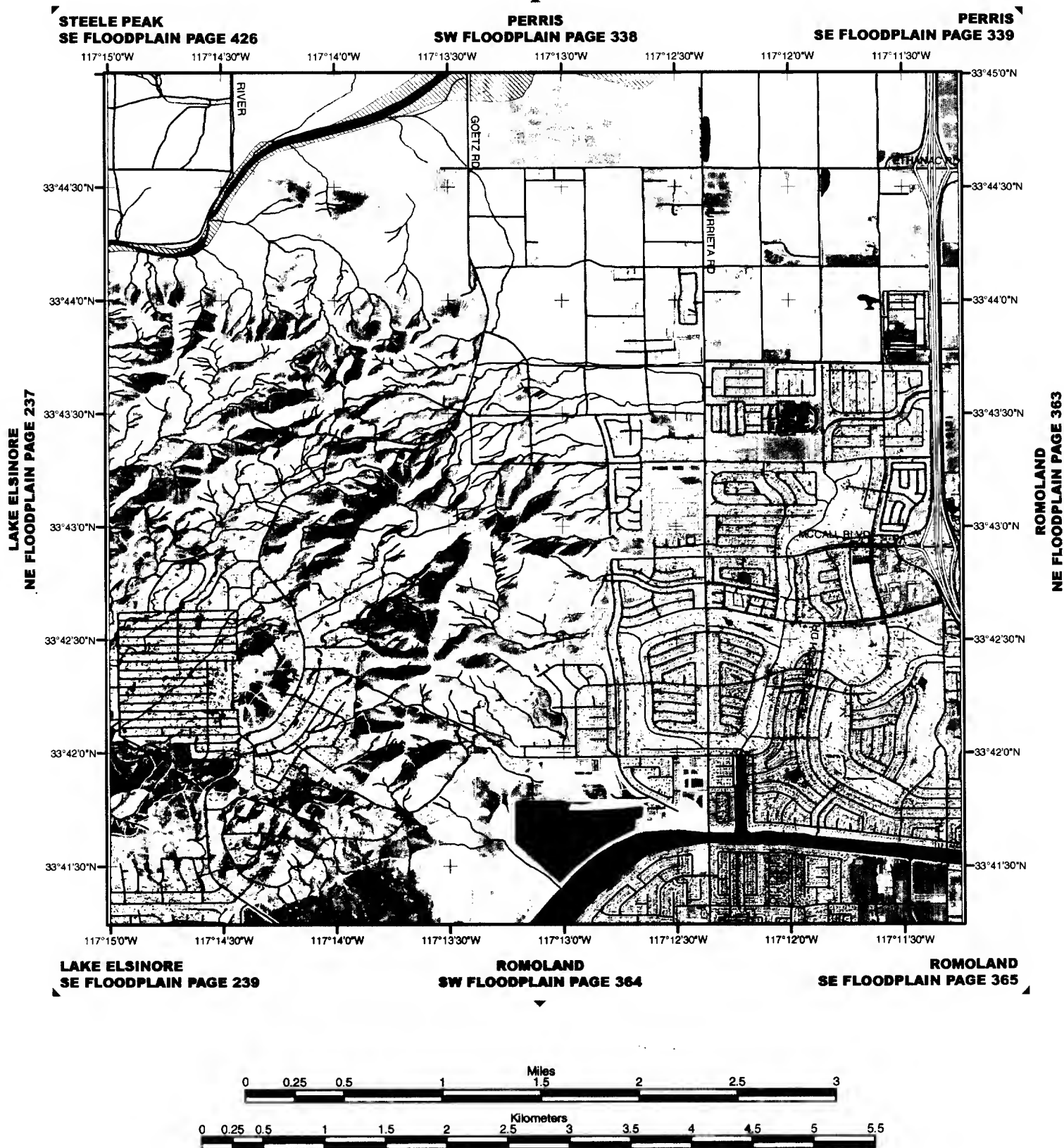


# Romoland Quadrangle

## Hydrogeomorphic Floodplain Units for Aquatic Resources

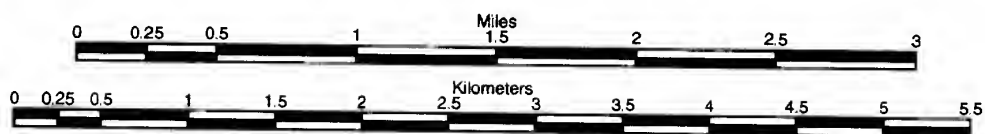
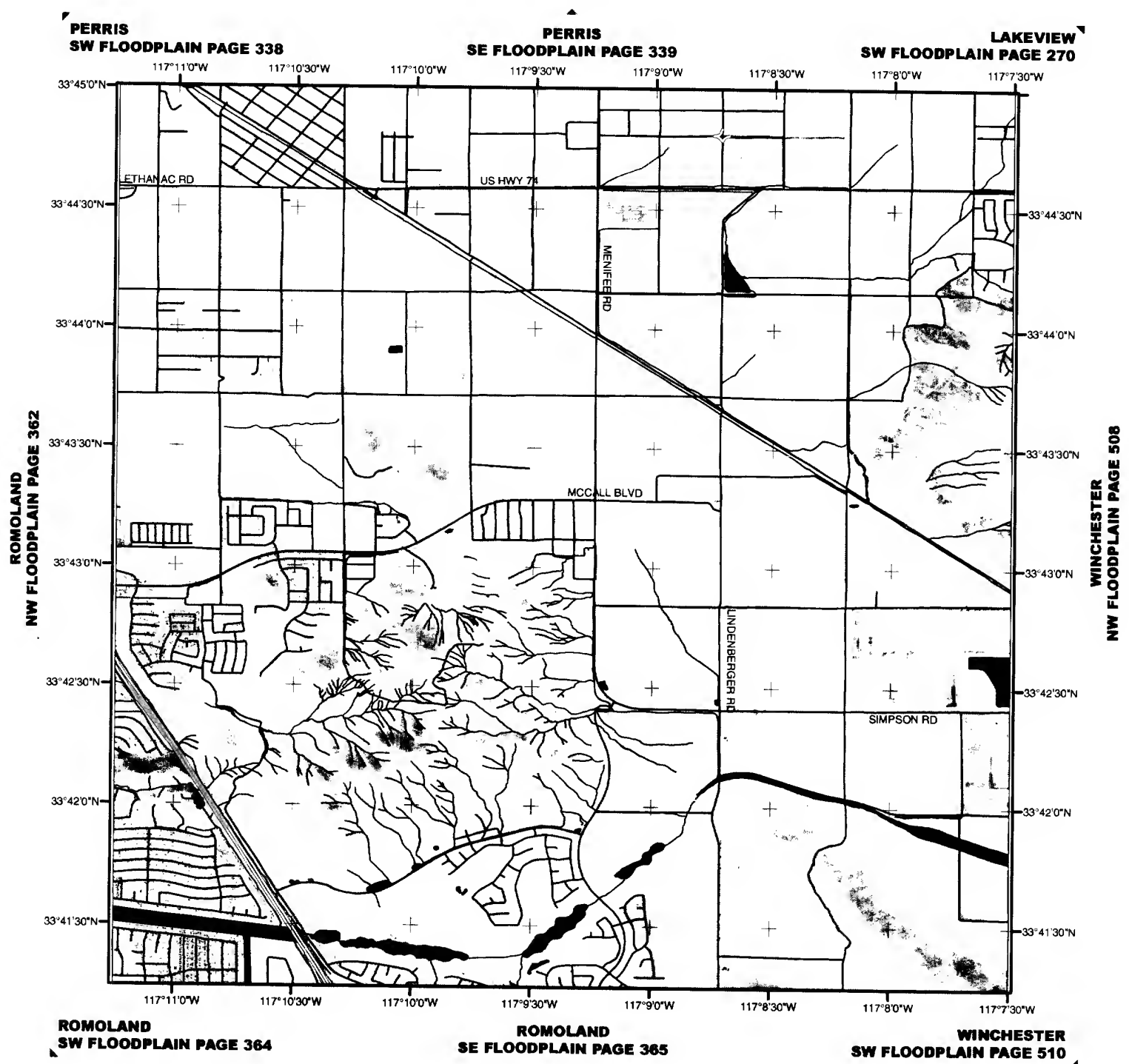


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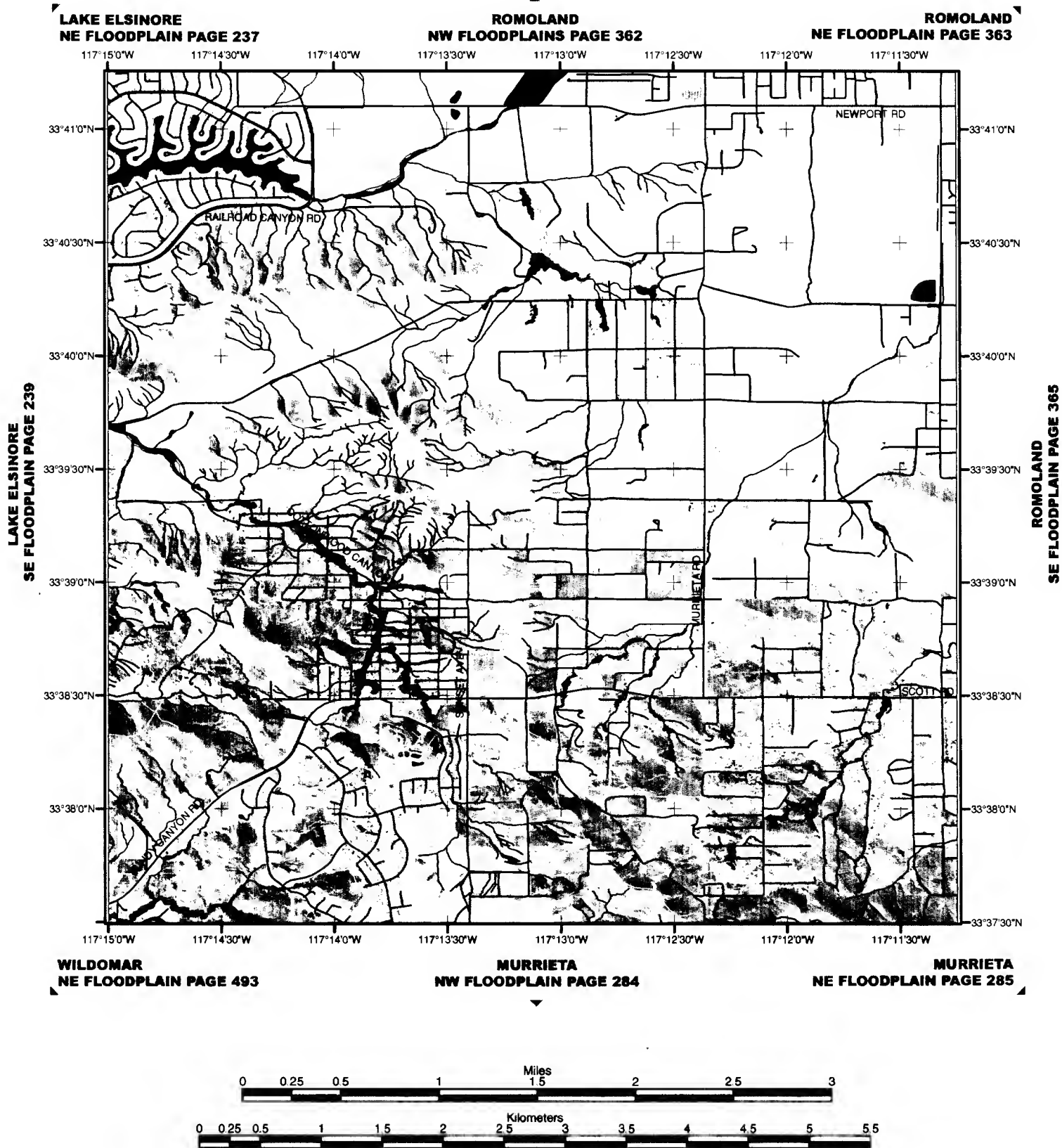


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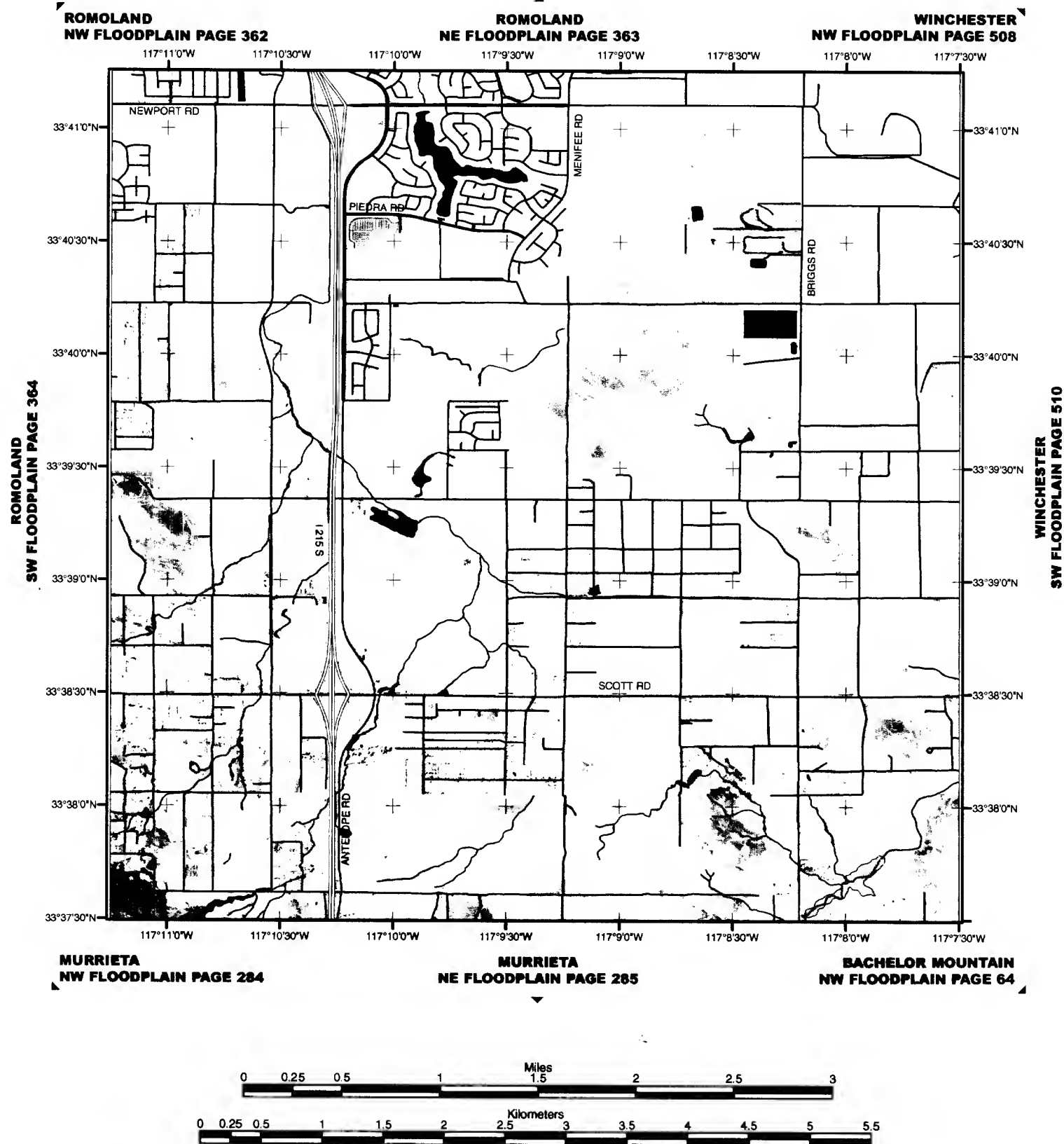




# Romoland South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



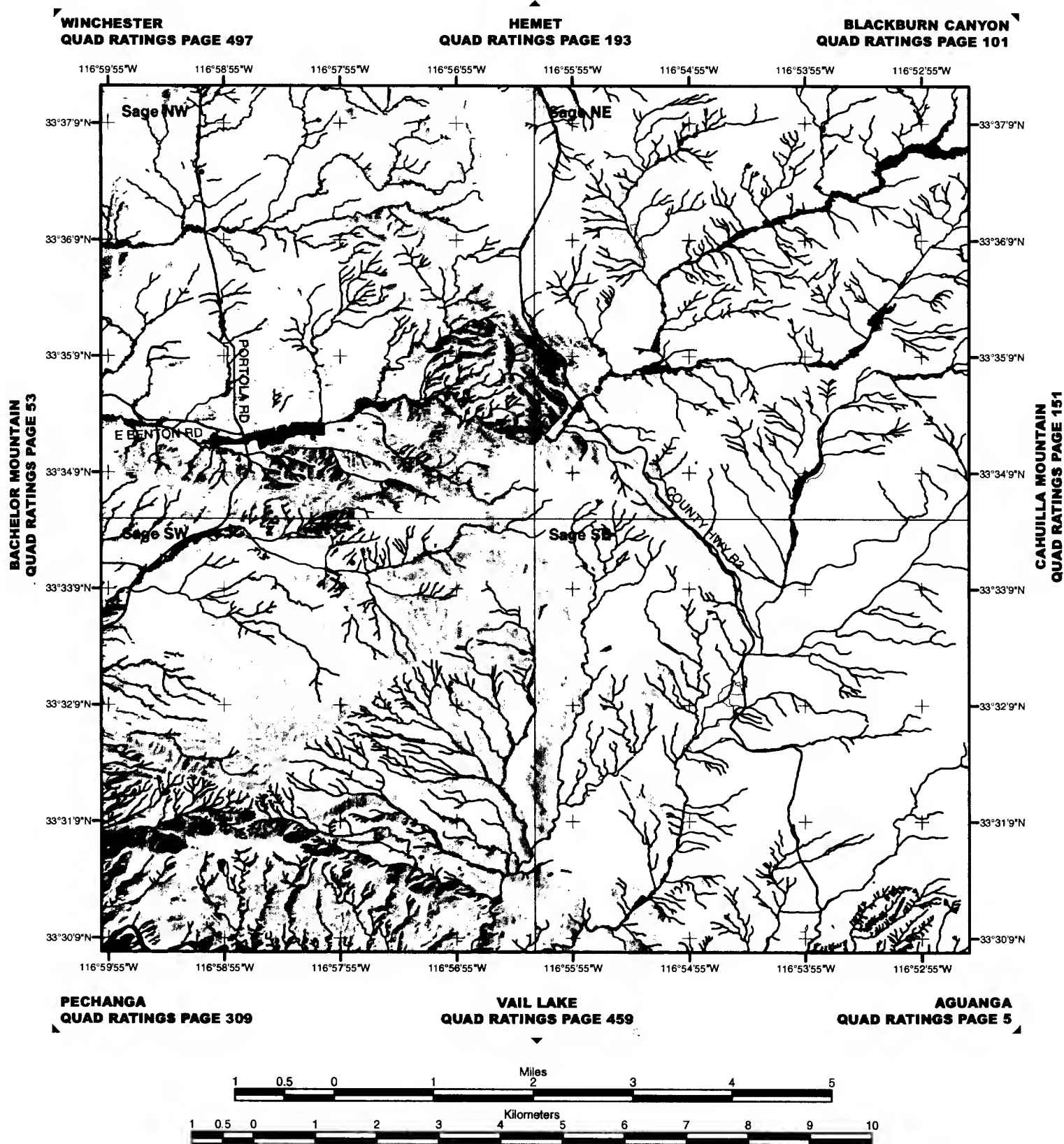
# Romoland South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



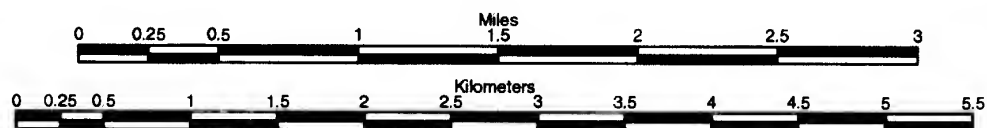
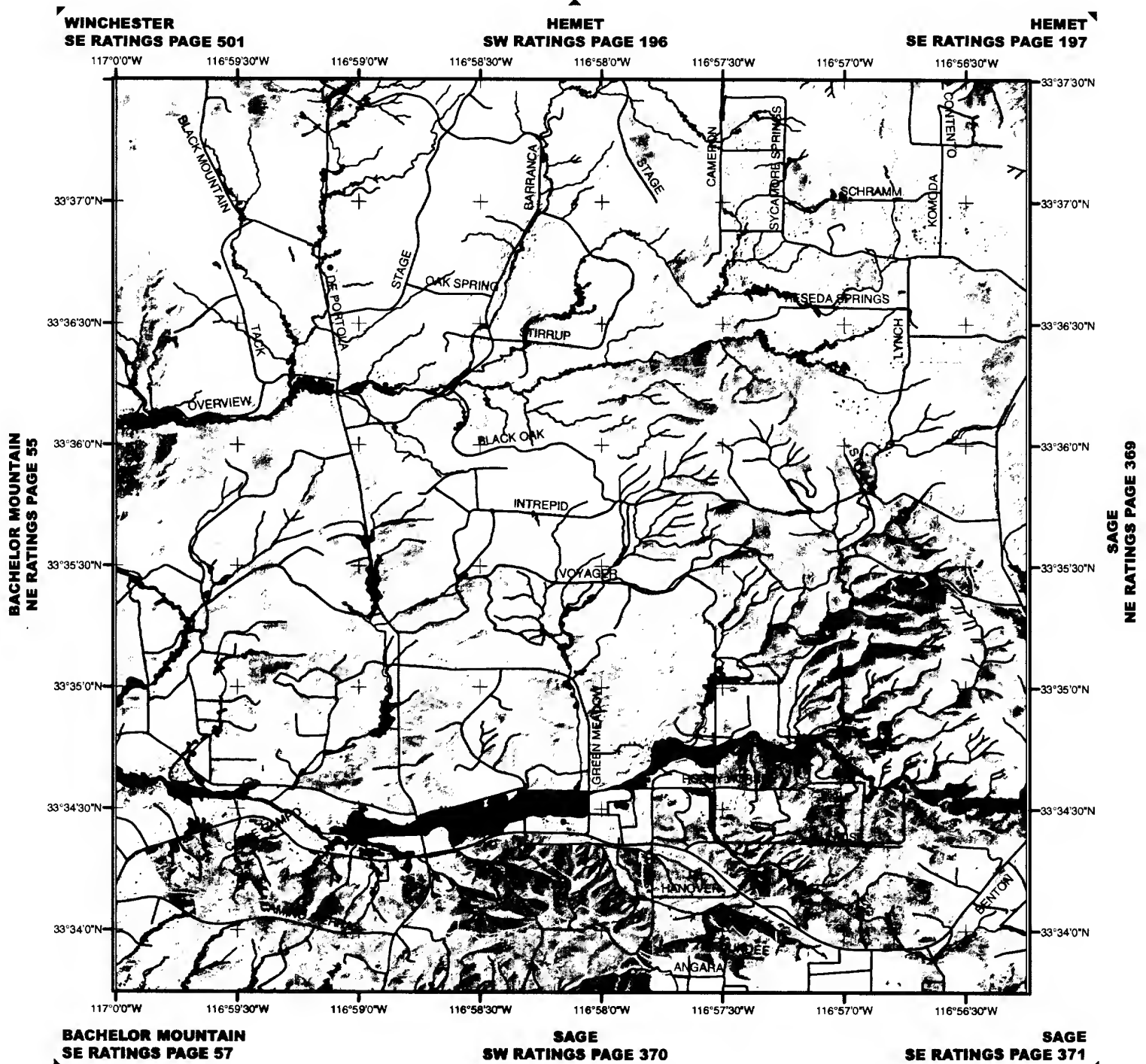


# Sage Quadrangle

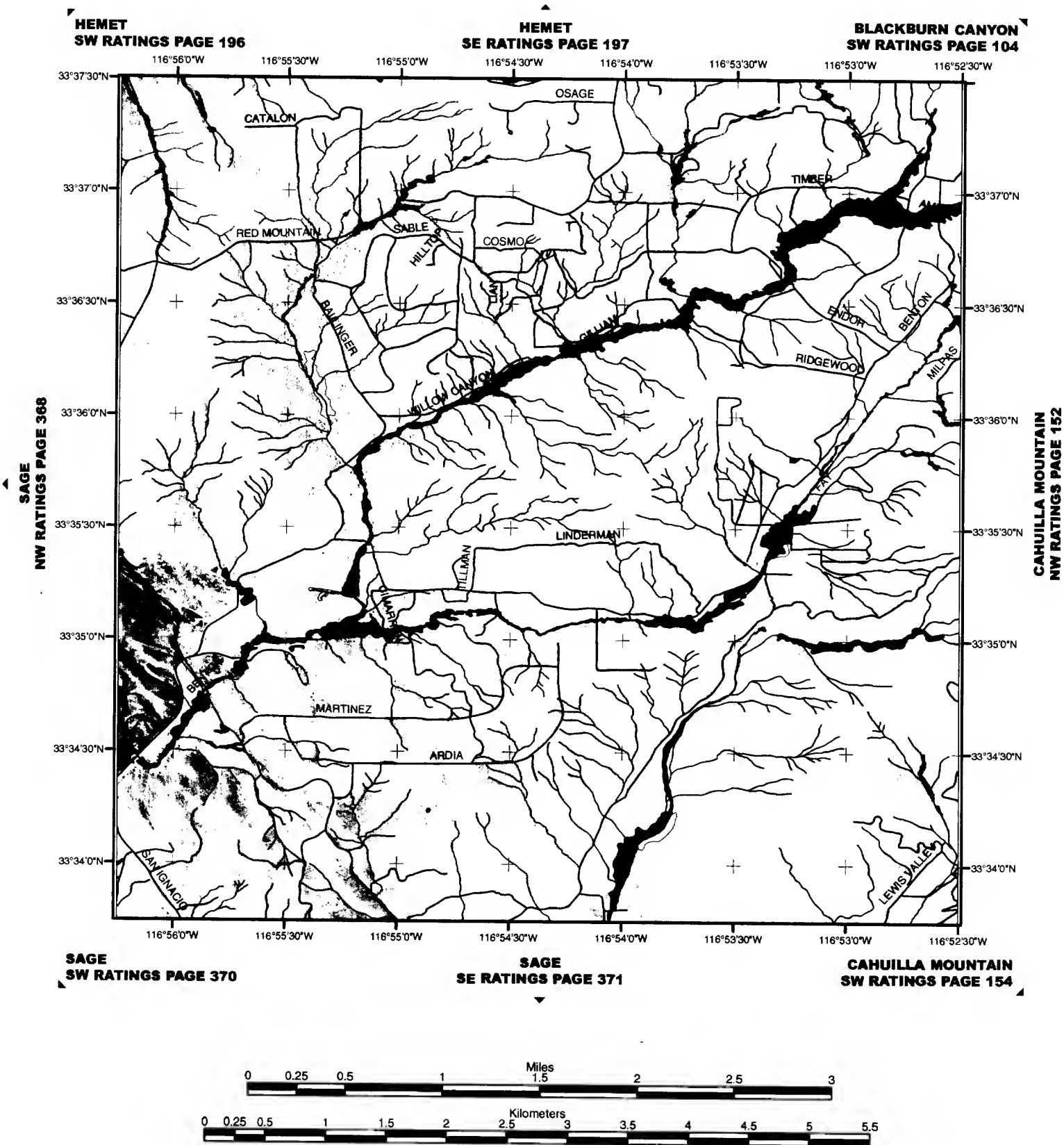
## Regulatory Probability Ratings for Aquatic Resources



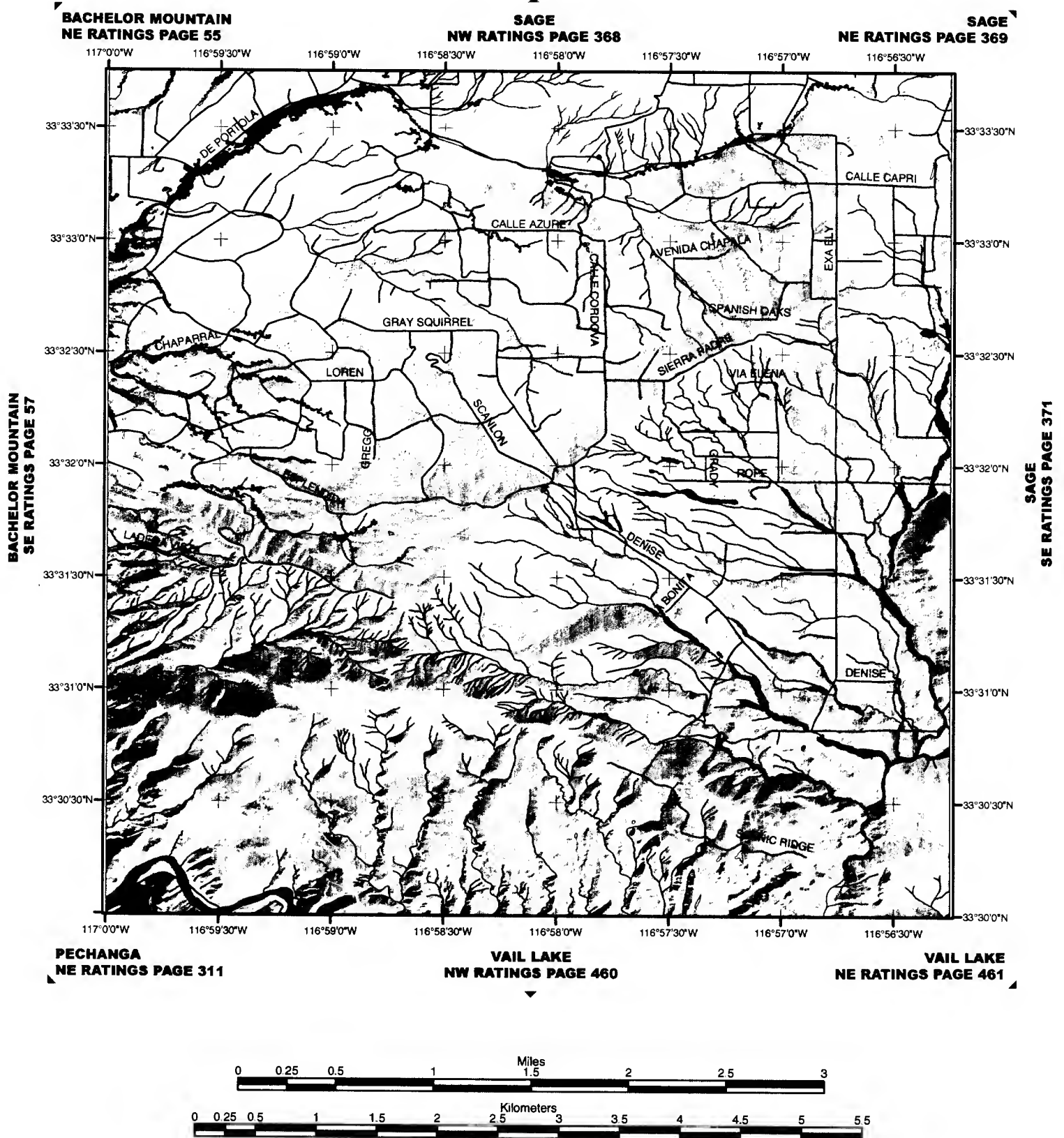
# Sage North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



# Sage North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

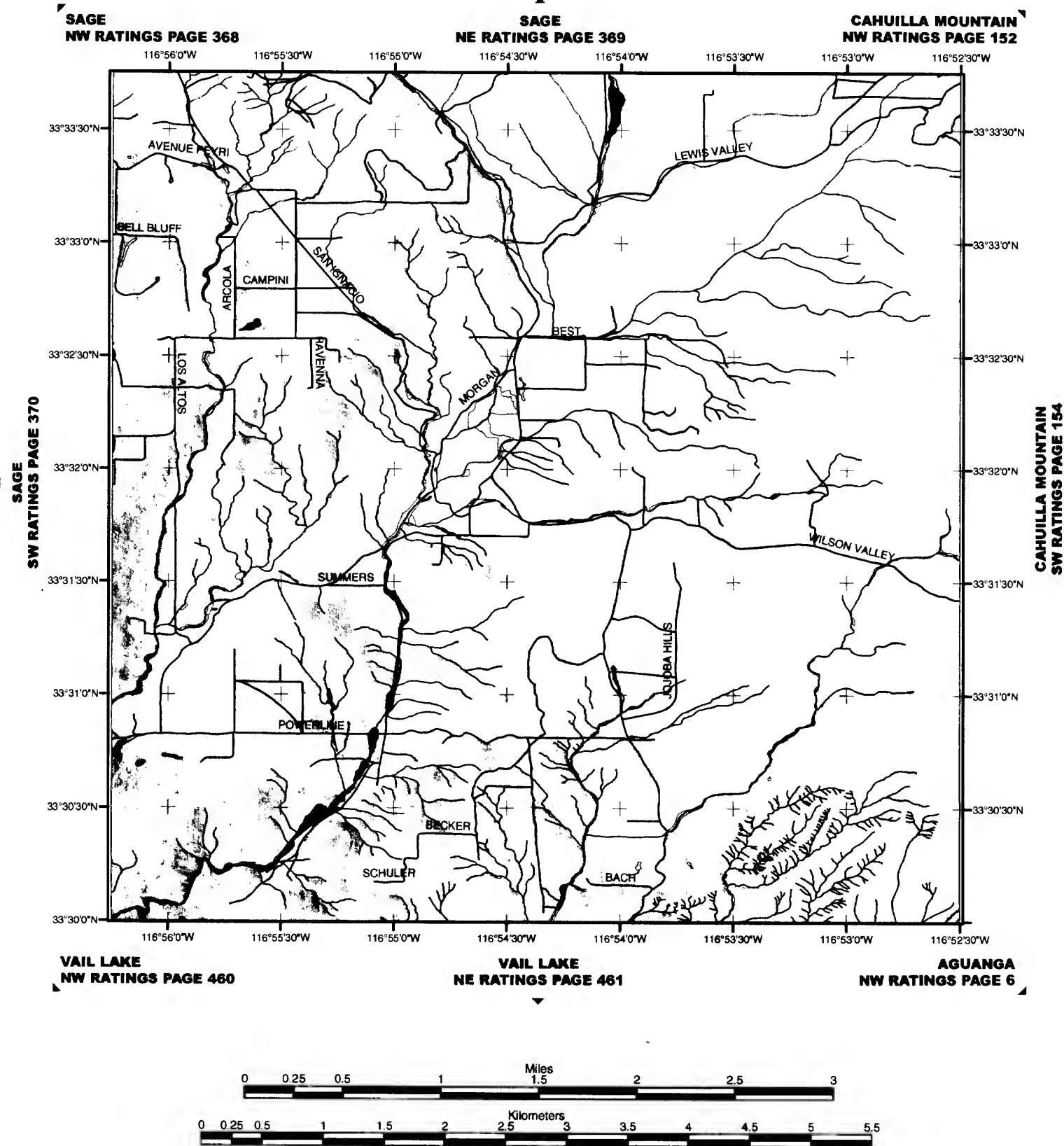


# Sage South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources





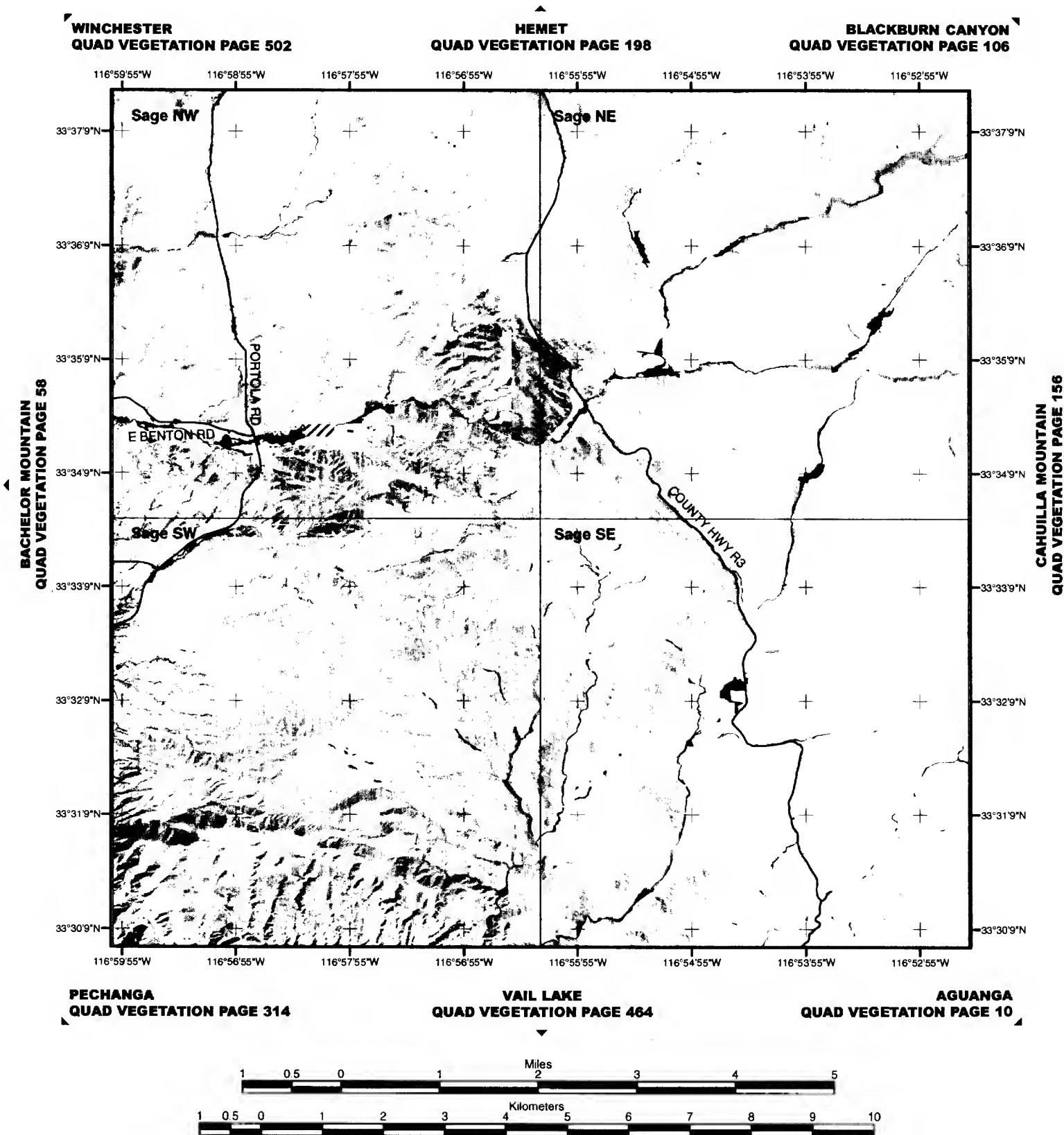
# Sage South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources





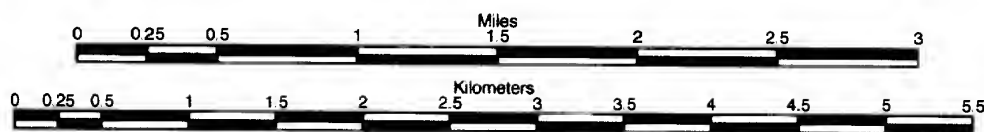
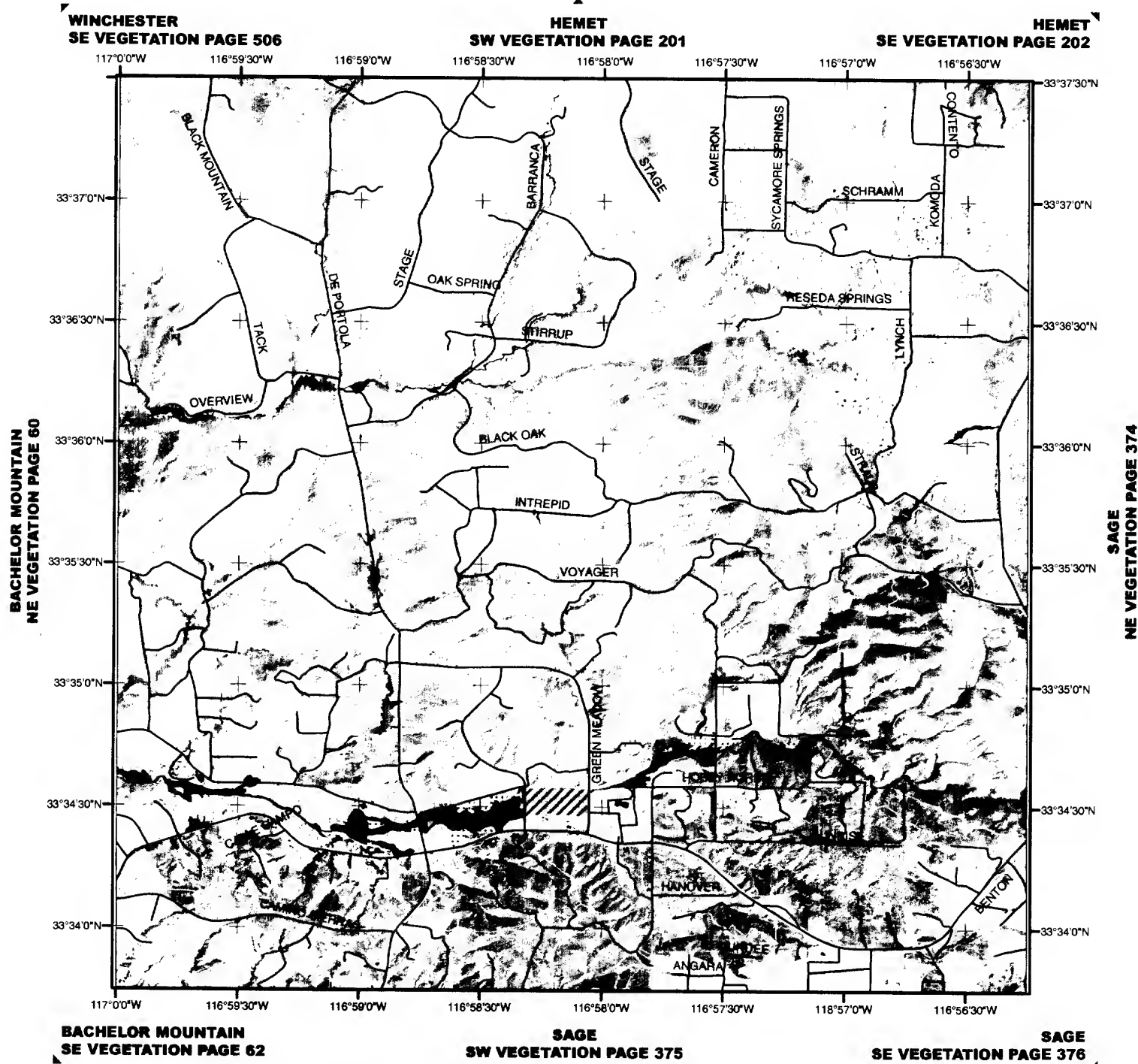
# Sage Quadrangle

## Vegetation Species Association Units for Aquatic Resources

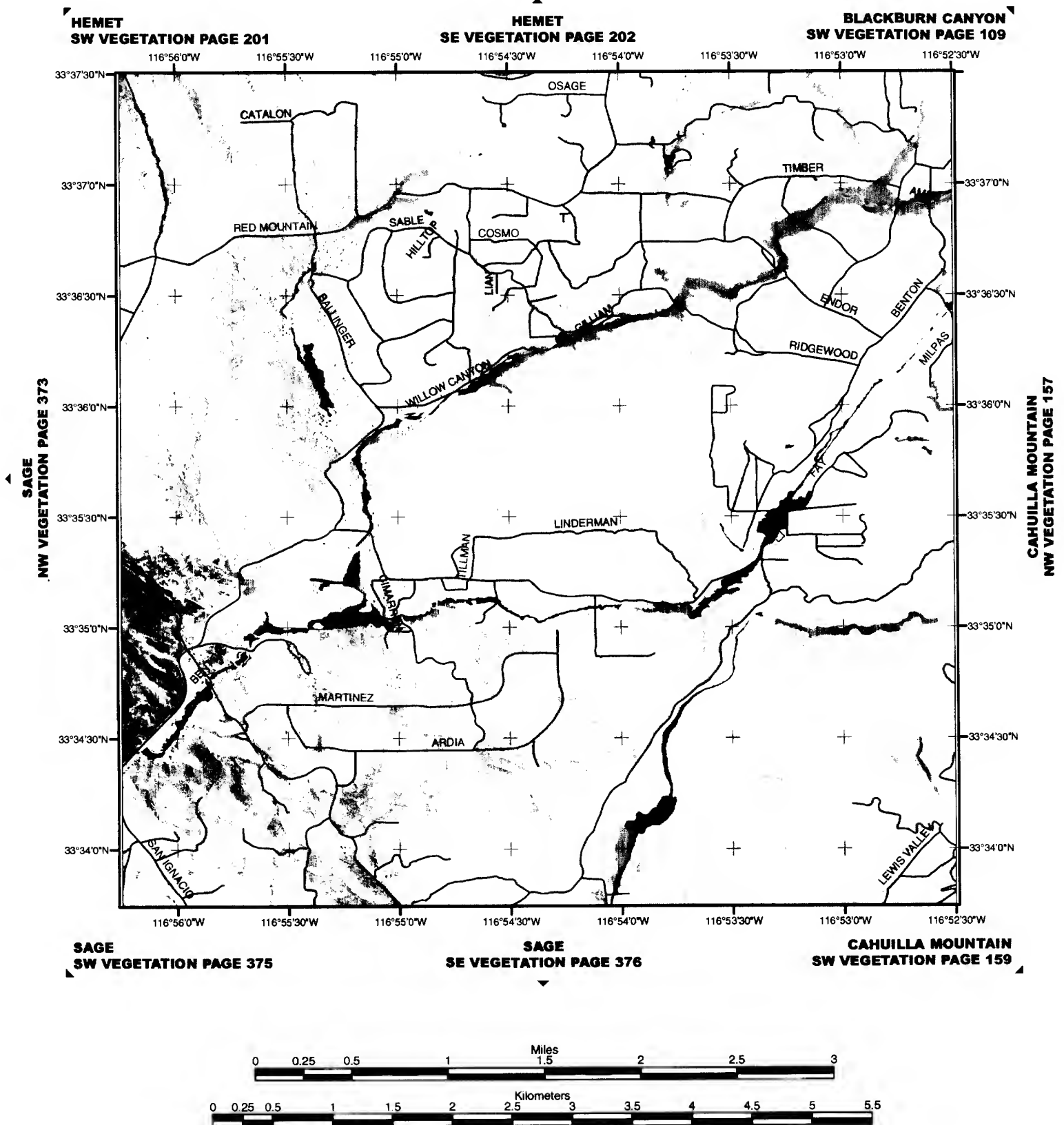


# Sage North West Quarter-Quadrangle

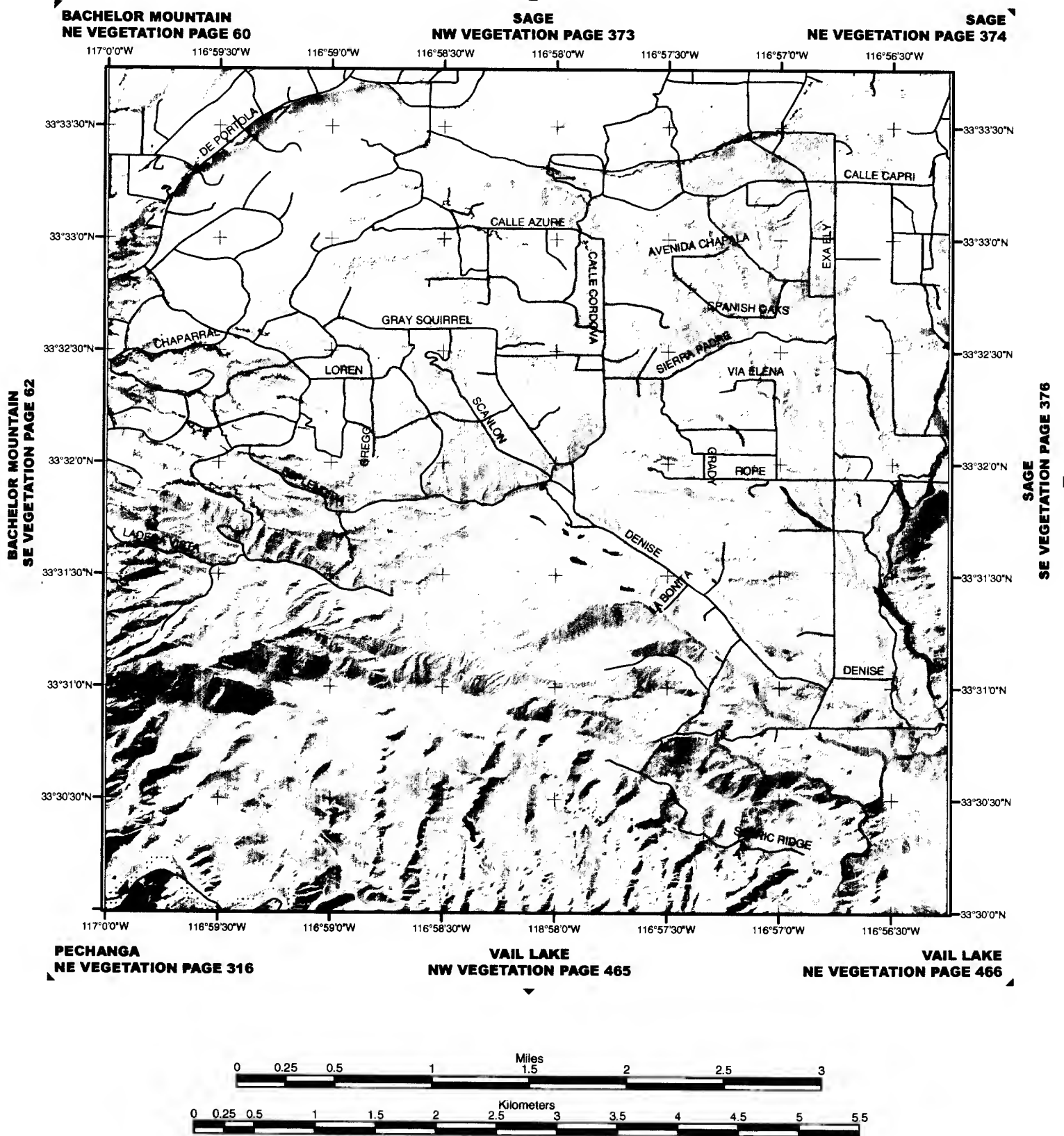
## Vegetation Species Association Units for Aquatic Resources



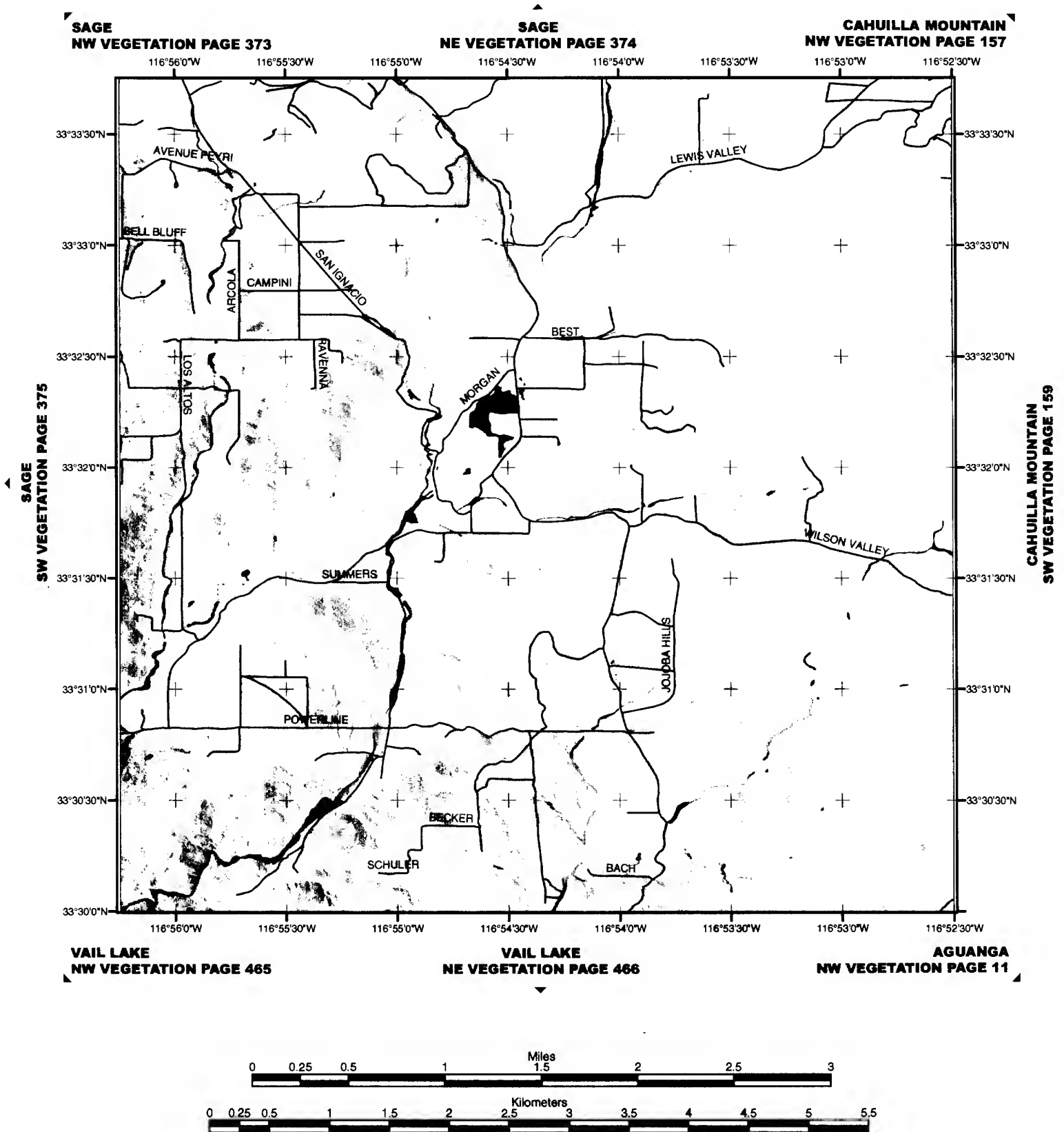
# Sage North East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



# Sage South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

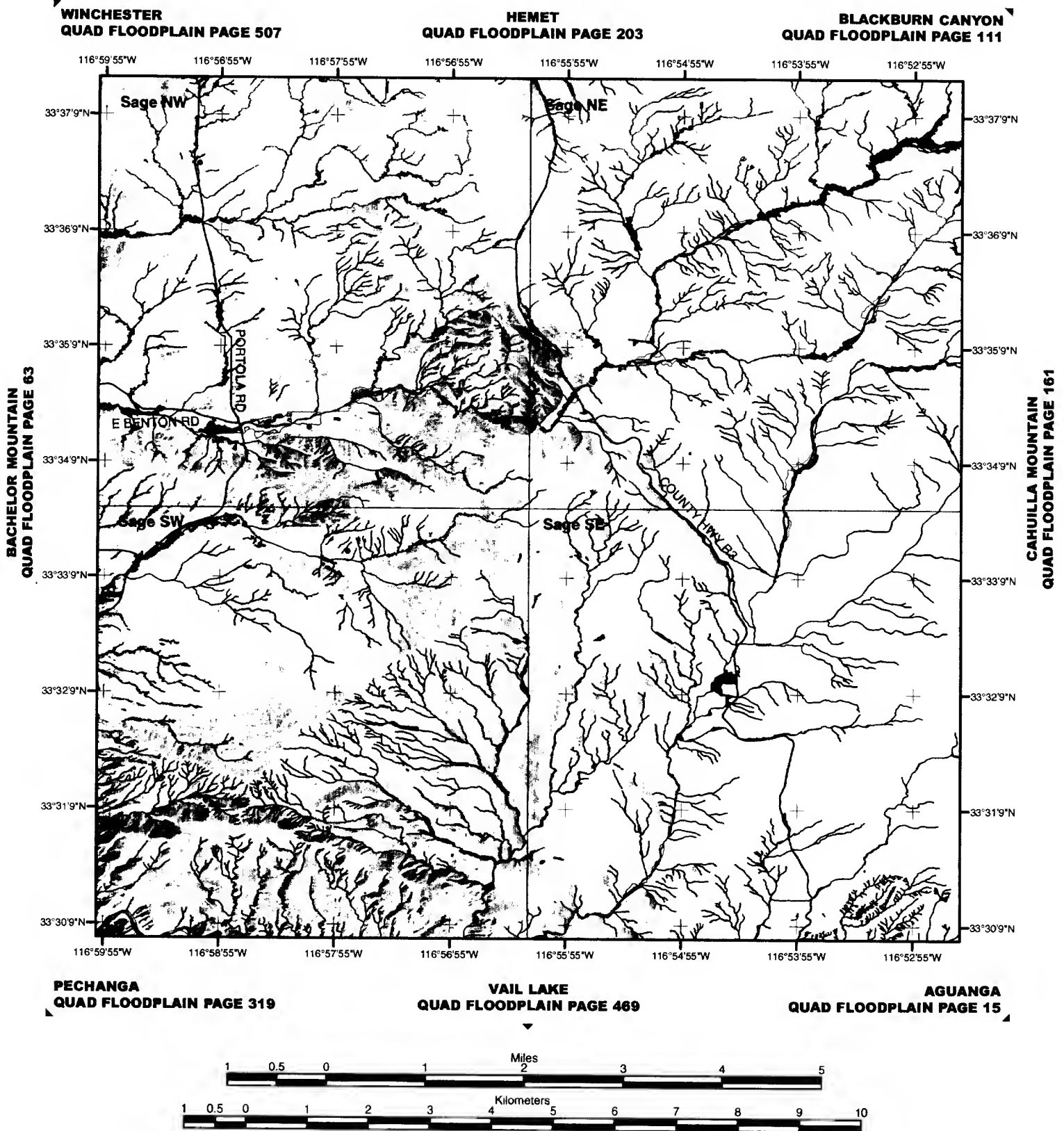


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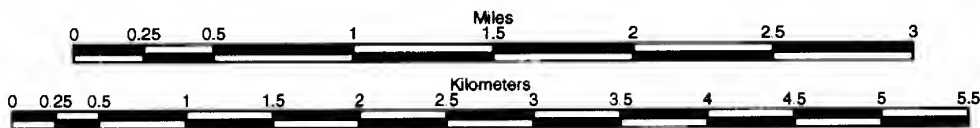
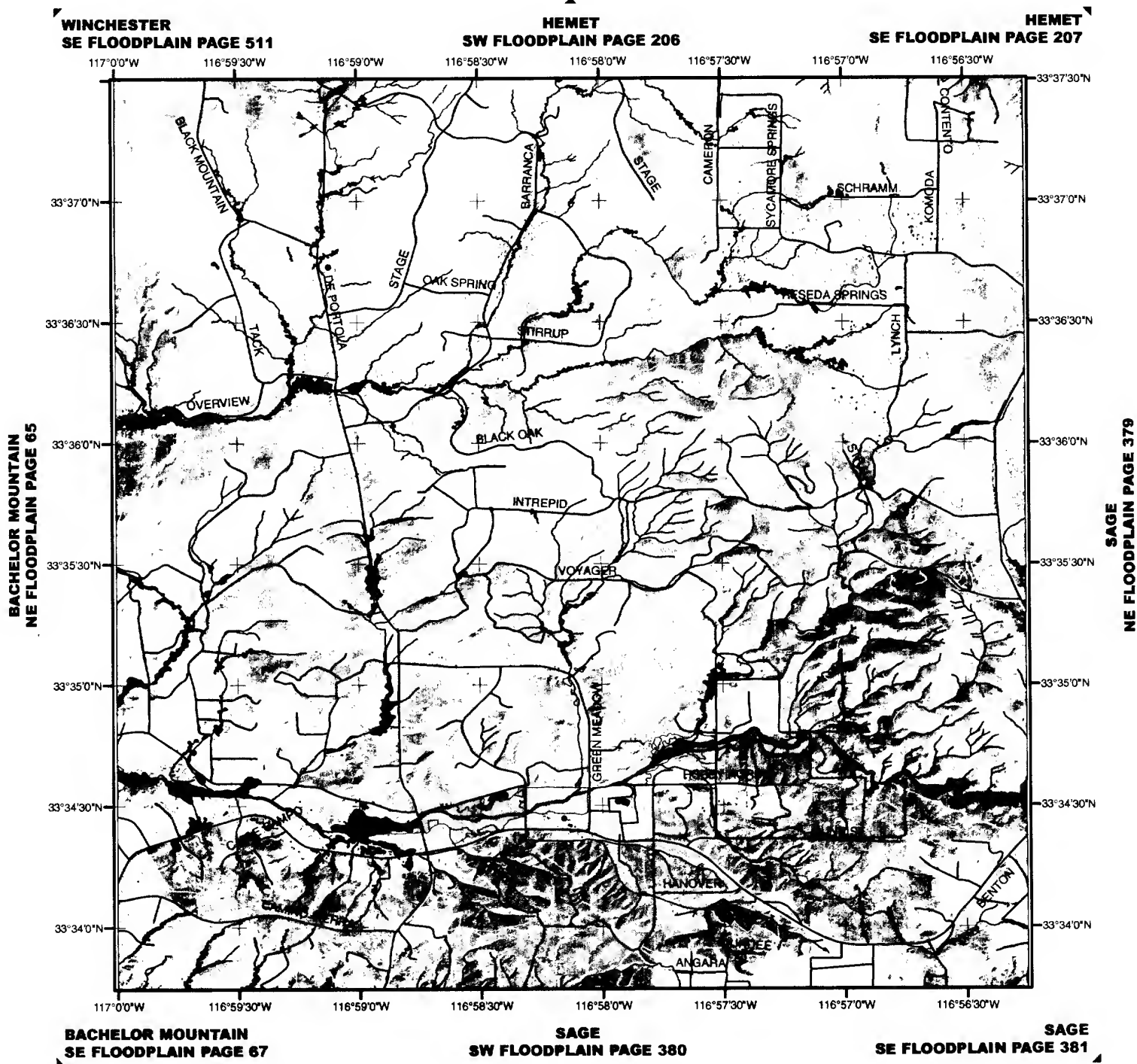


# Sage Quadrangle

## Hydrogeomorphic Floodplain Units for Aquatic Resources

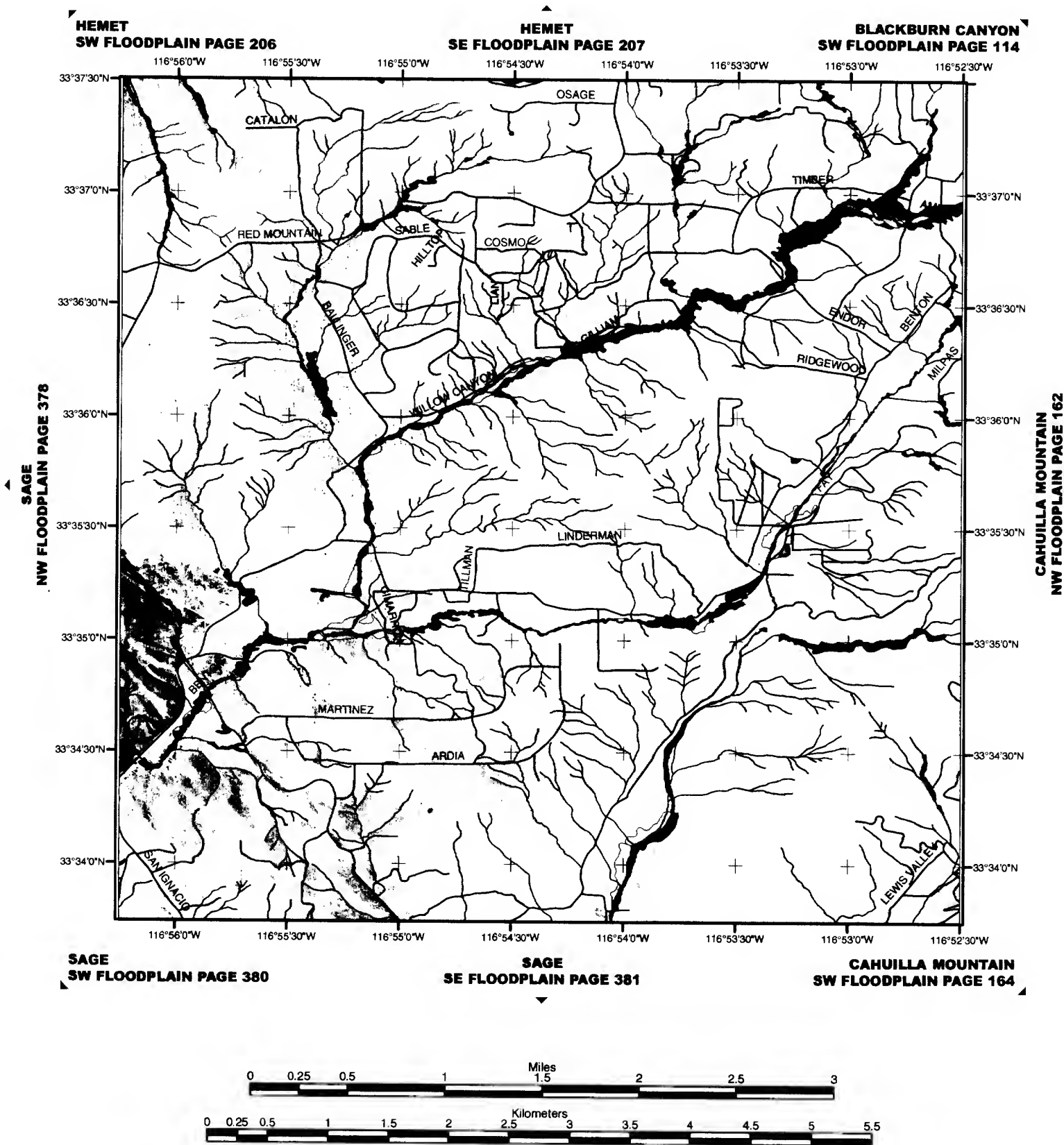


# Sage North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



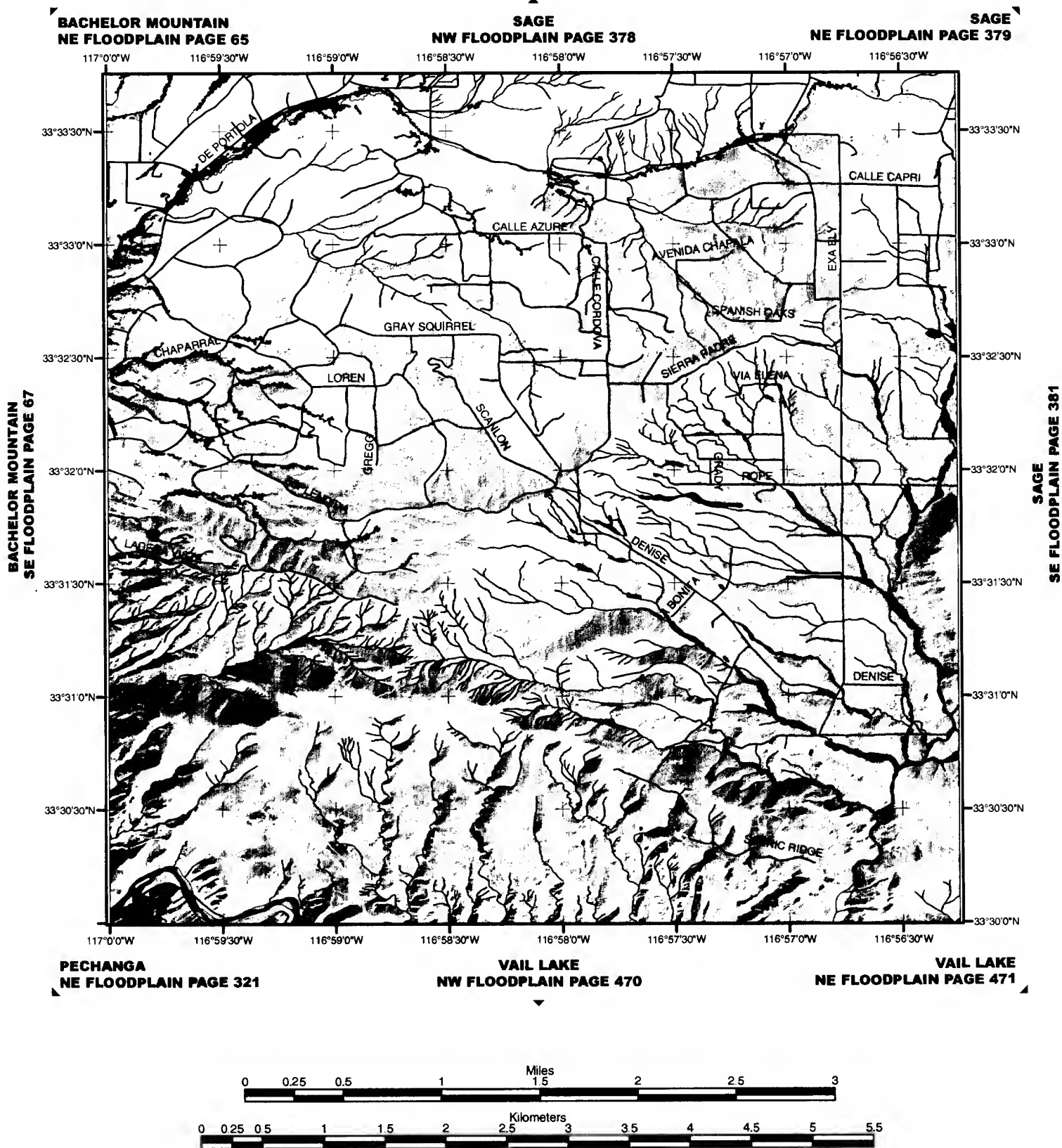


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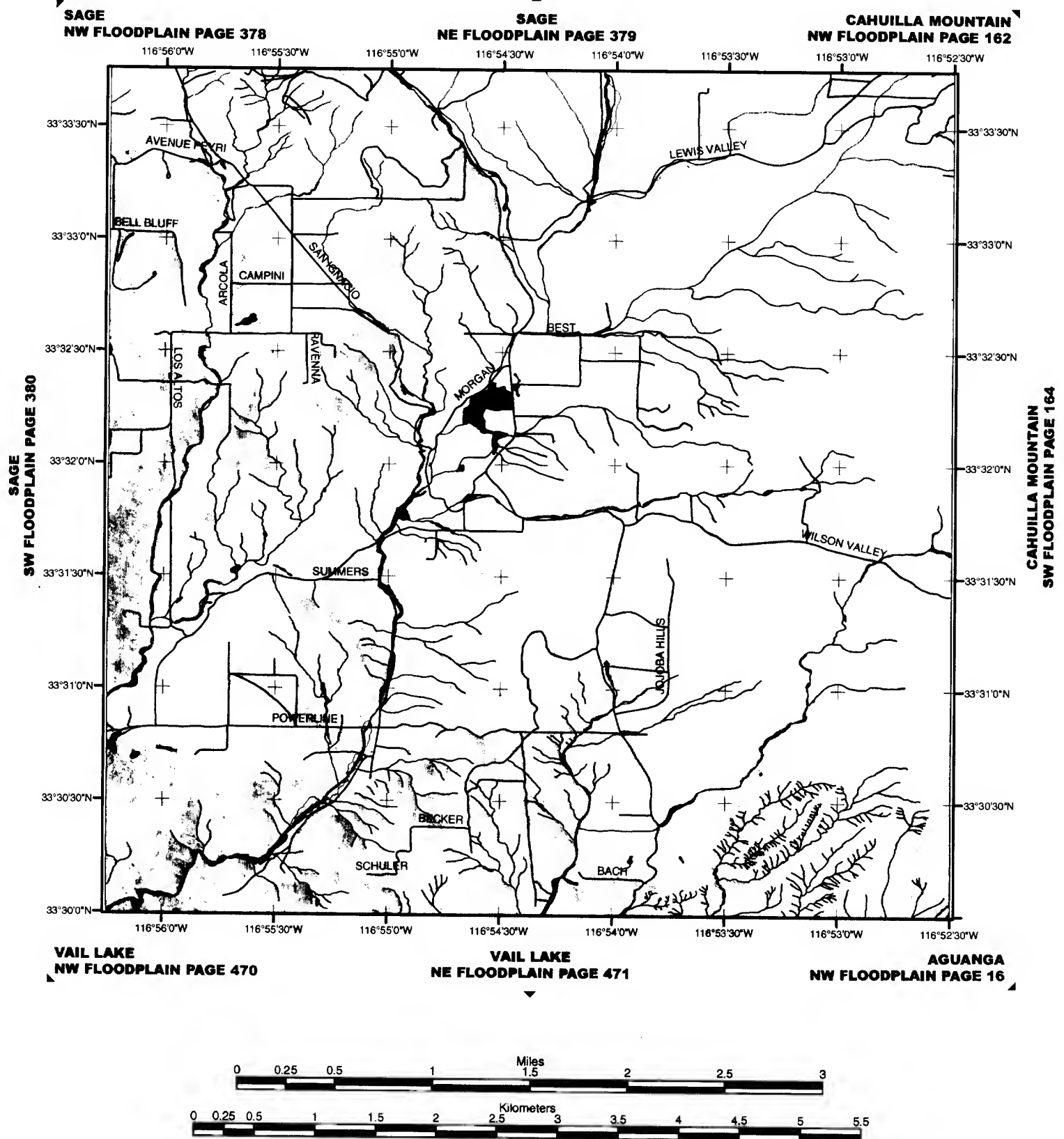




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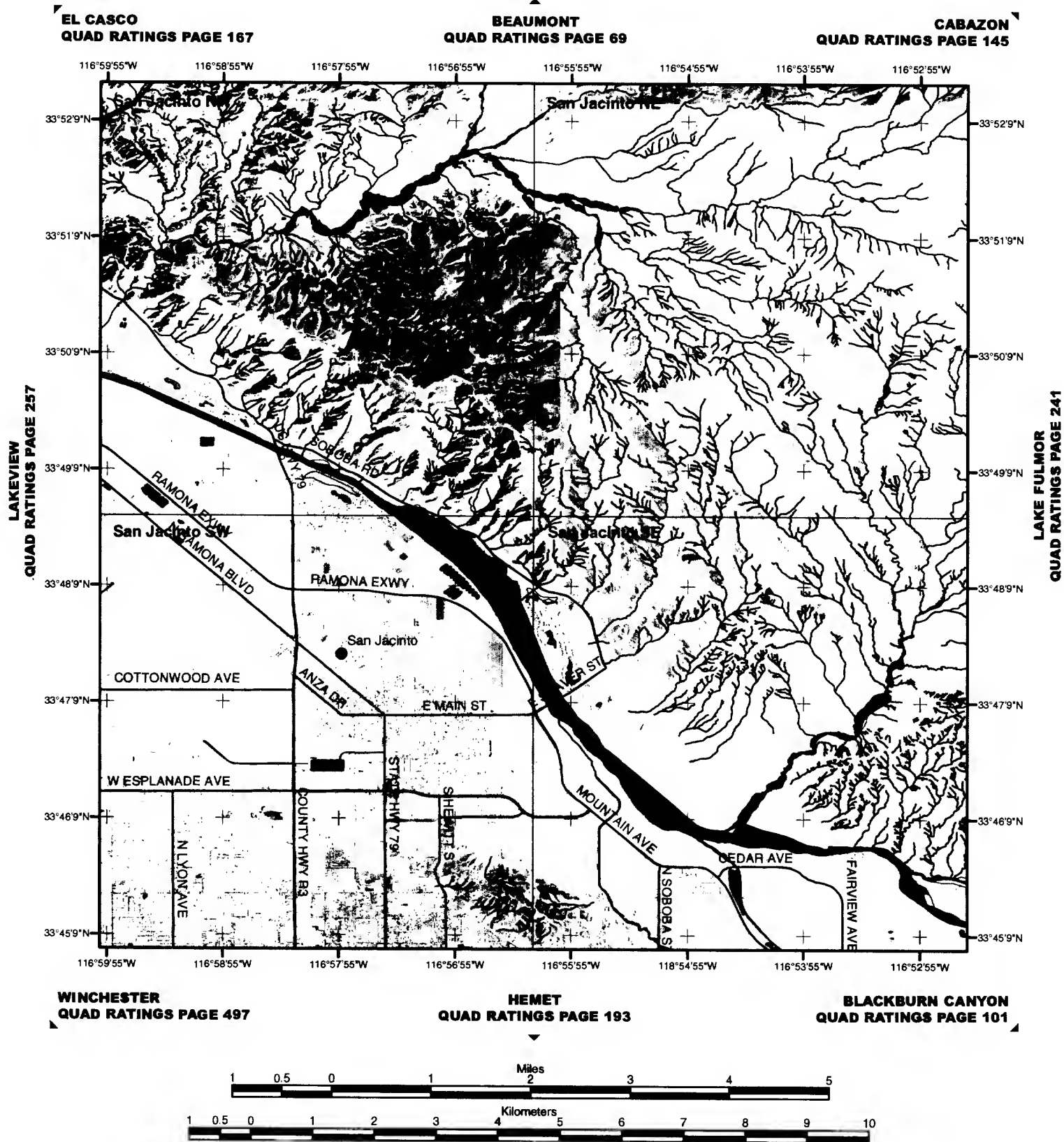
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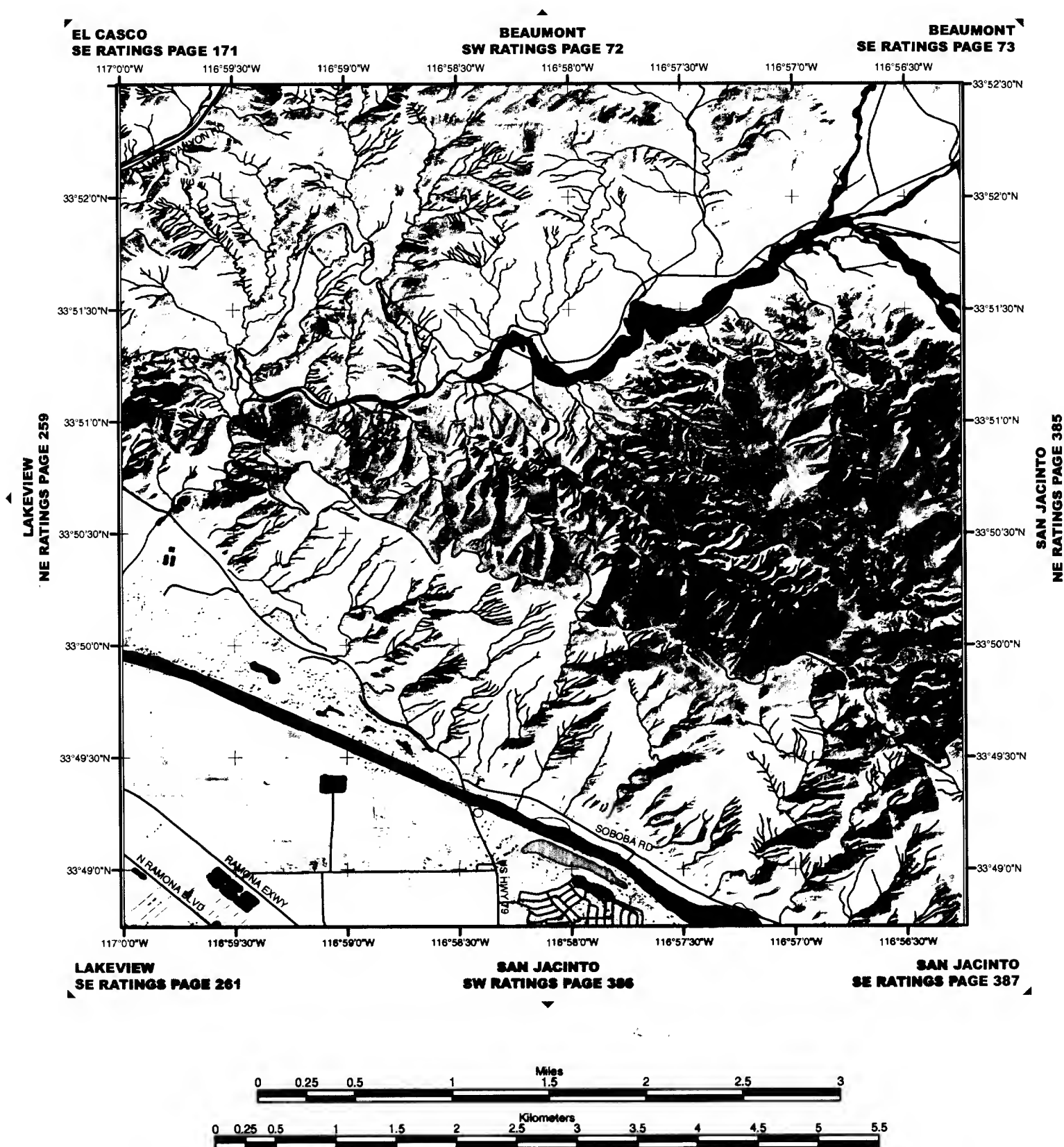


# San Jacinto Quadrangle

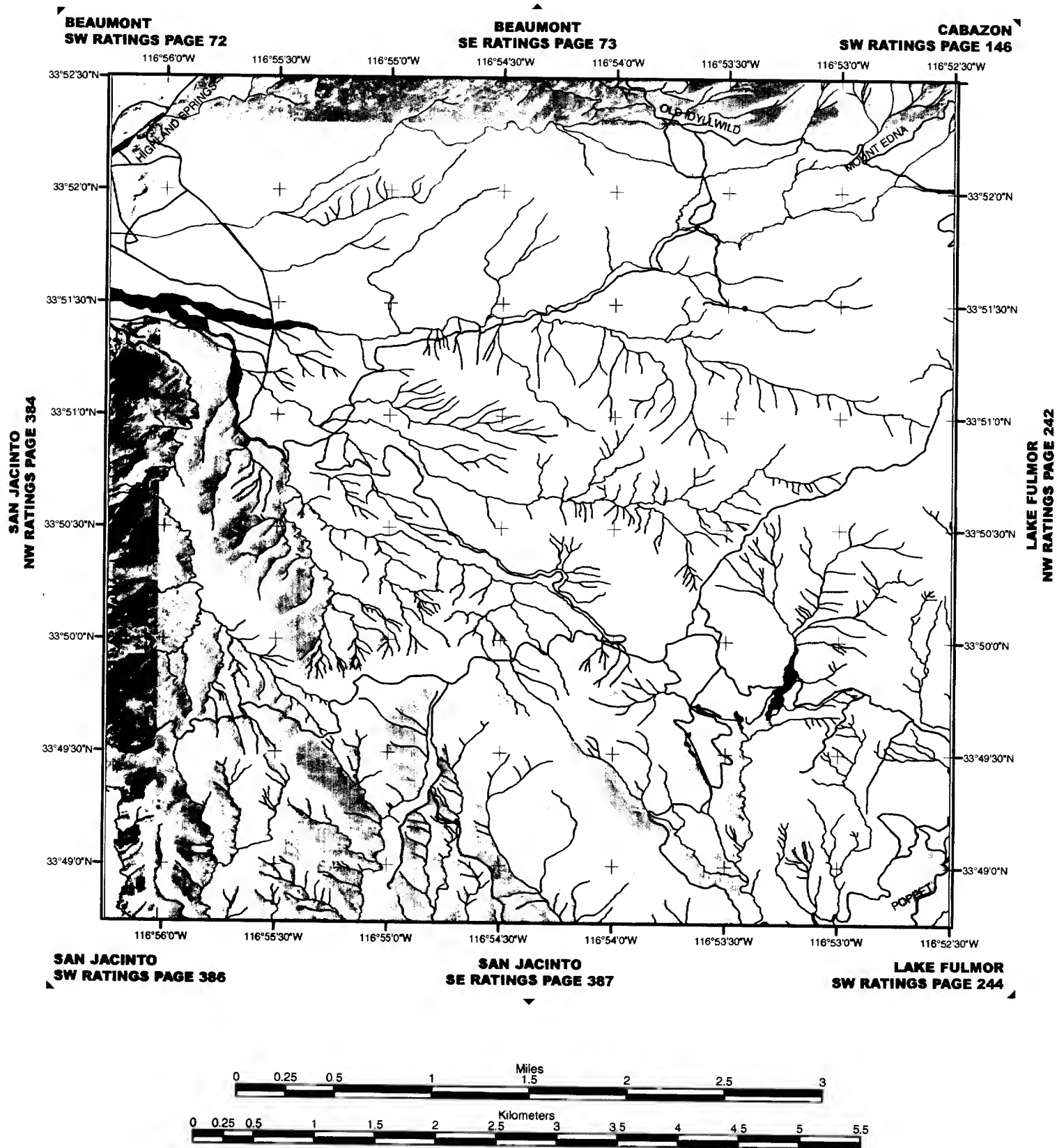
## Regulatory Probability Ratings for Aquatic Resources



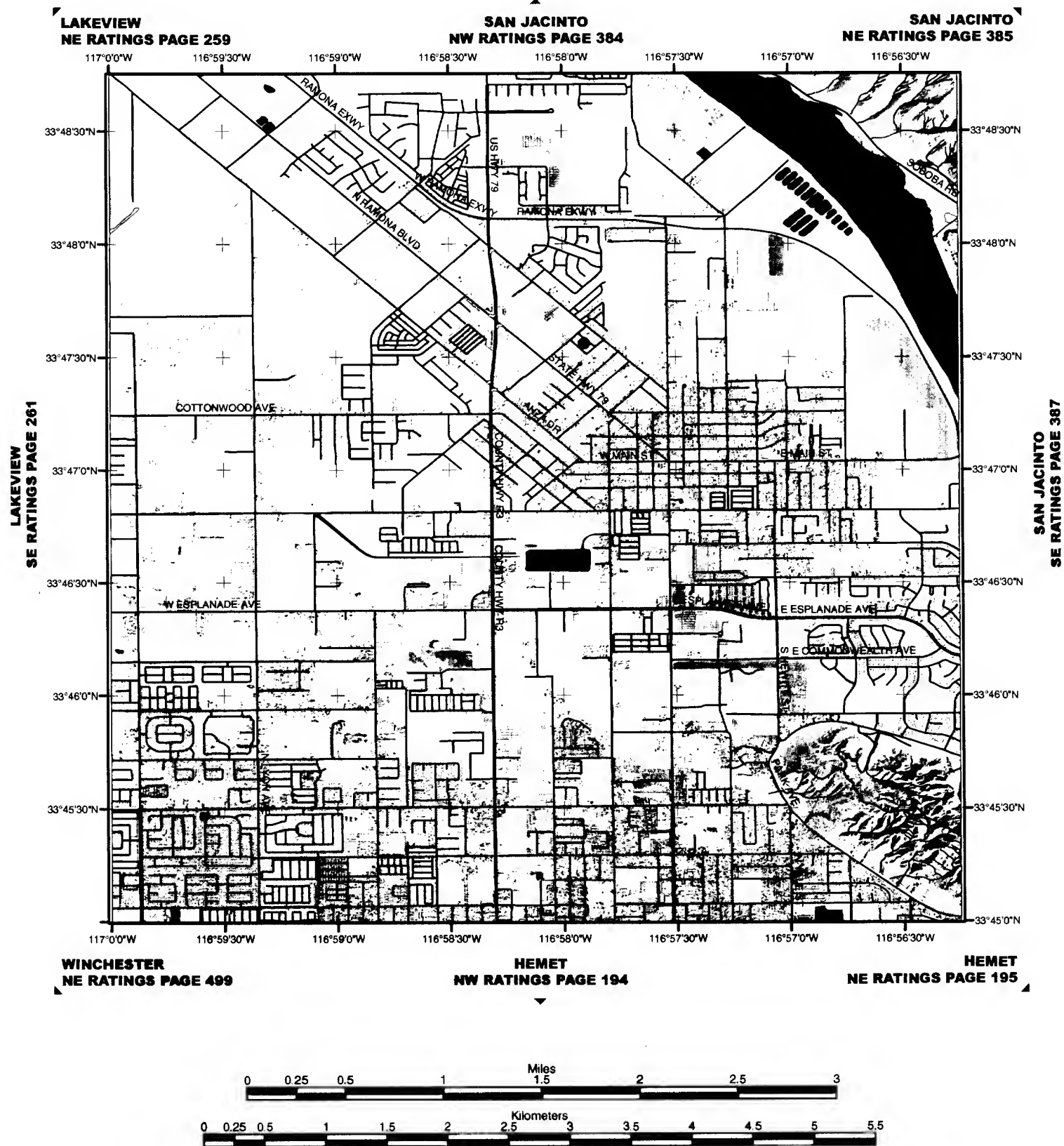
# San Jacinto North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



# San Jacinto North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

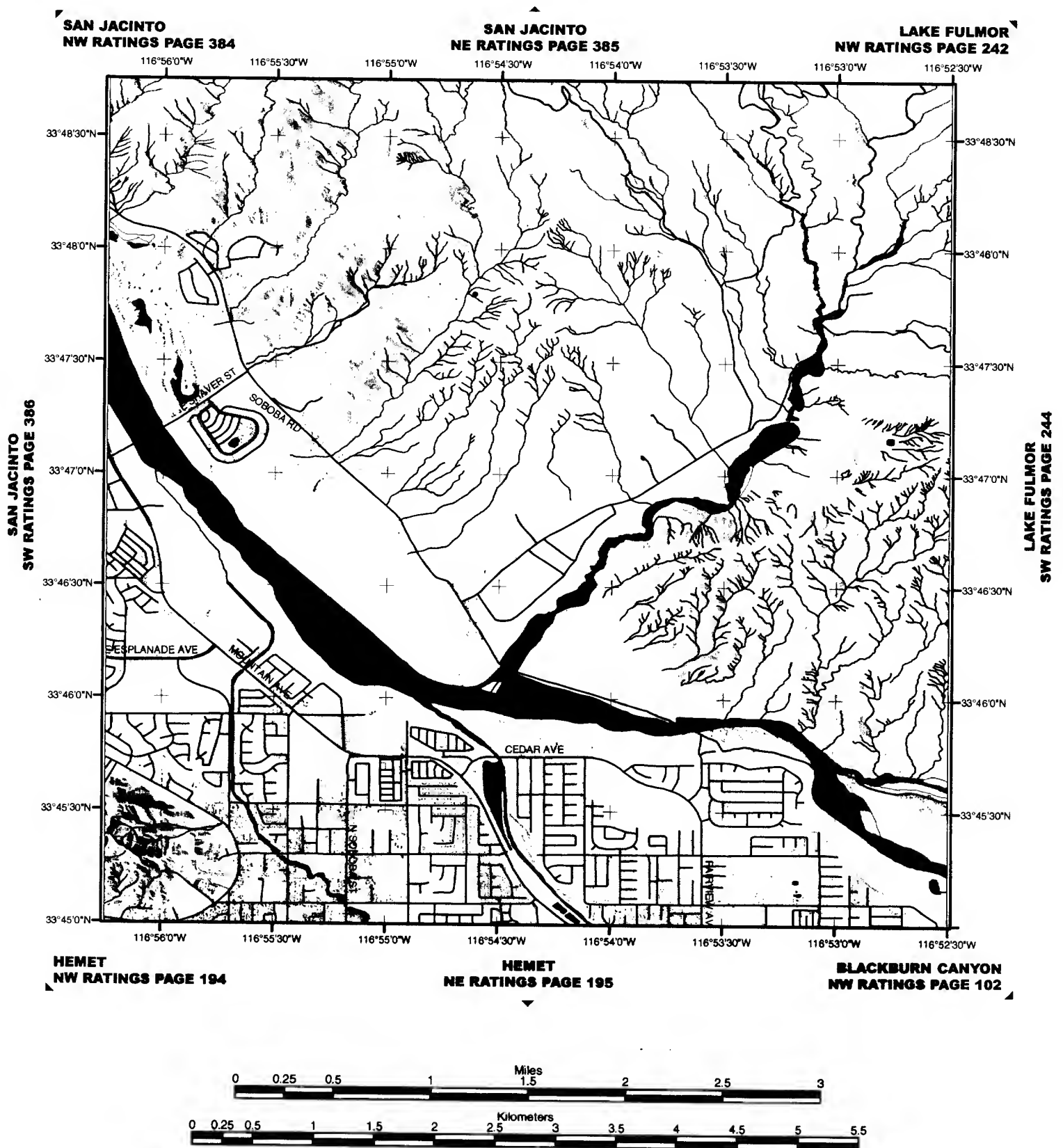


# San Jacinto South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources





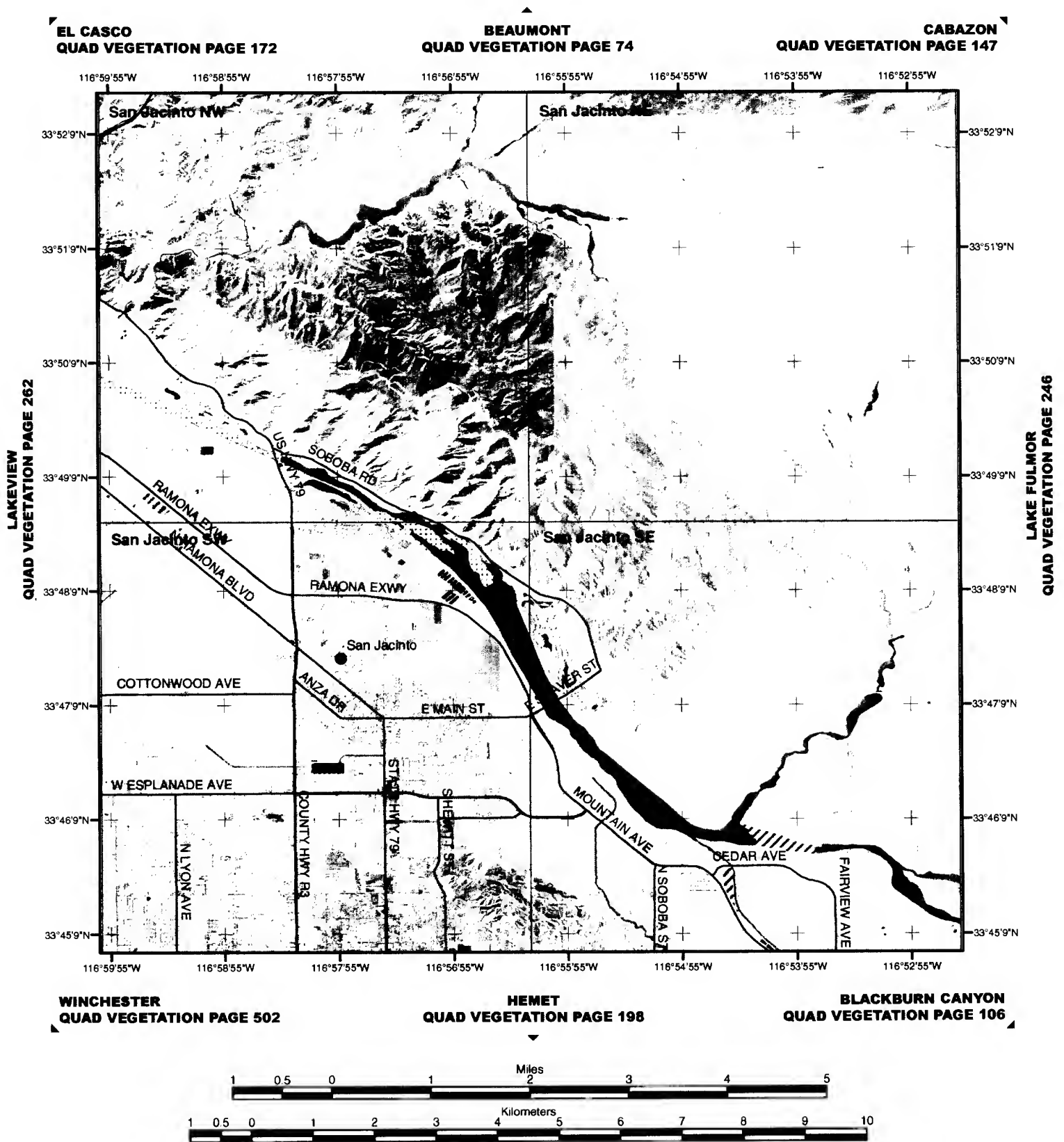
# San Jacinto South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



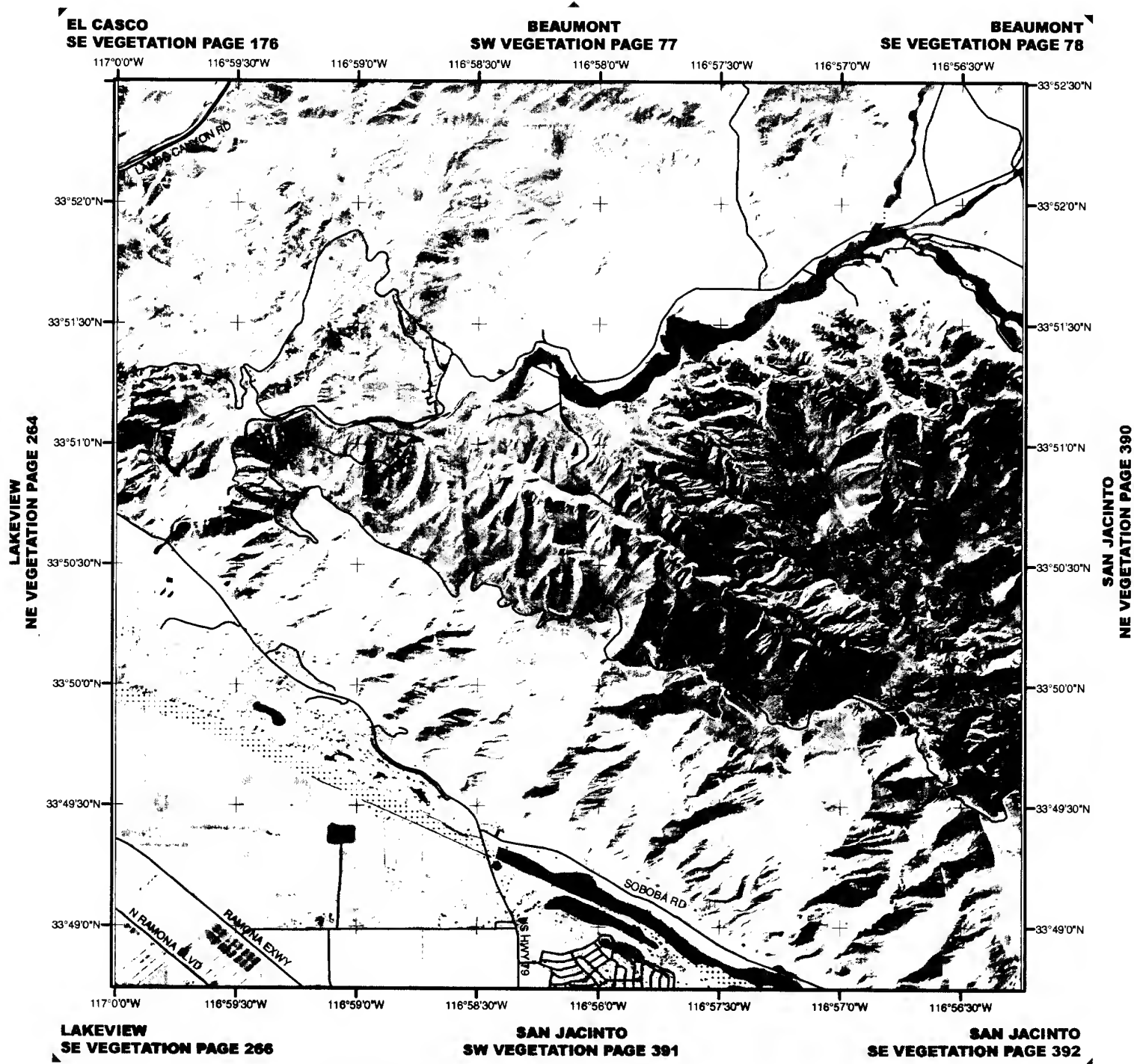


# San Jacinto Quadrangle

## Vegetation Species Association Units for Aquatic Resources

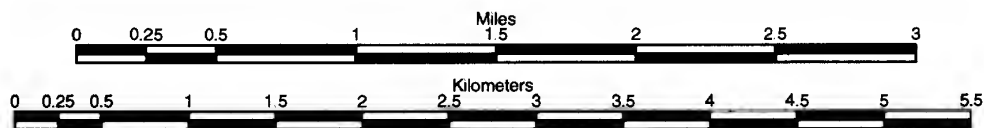
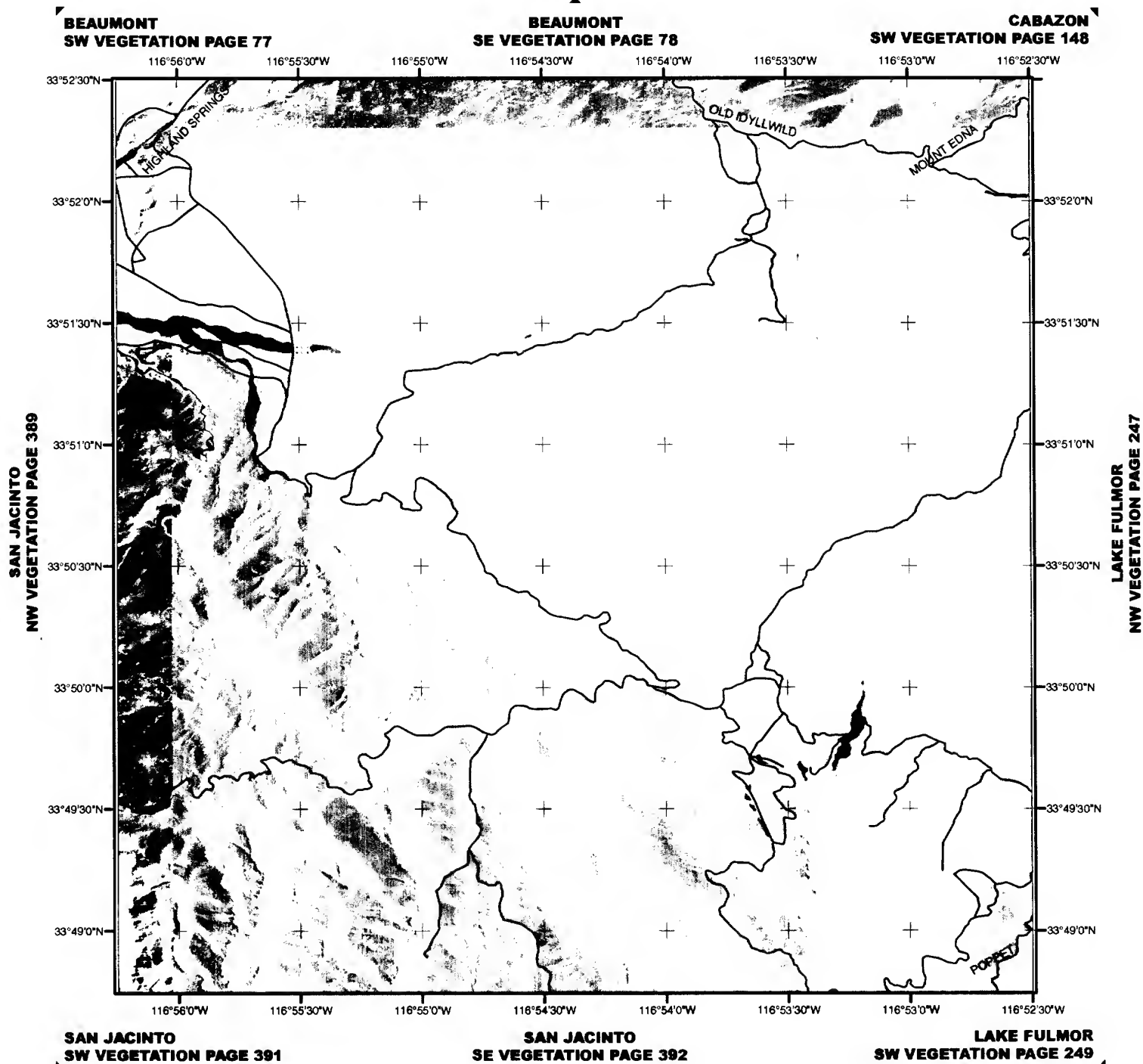


# San Jacinto North West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

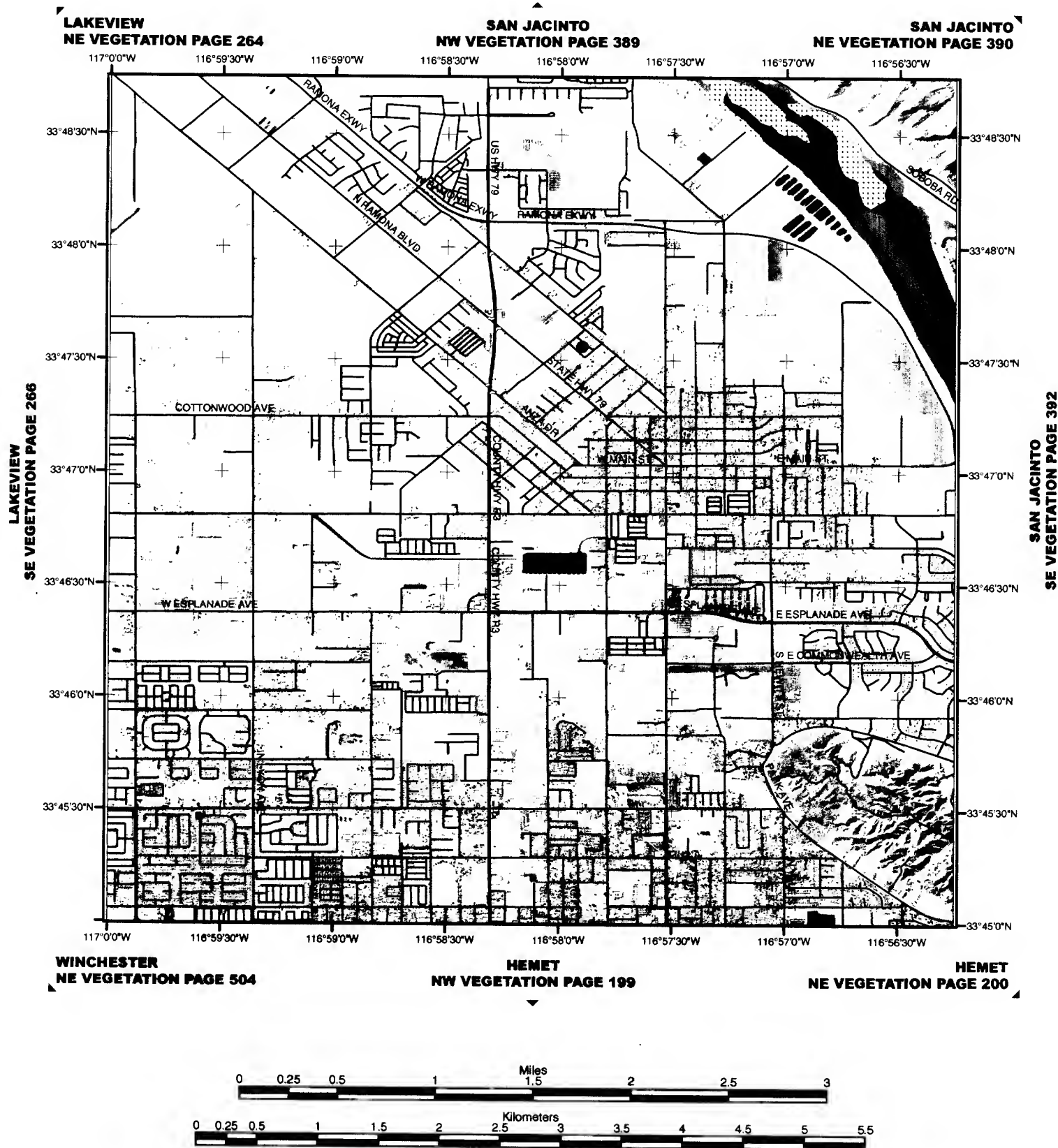


# San Jacinto North East Quarter-Quadrangle

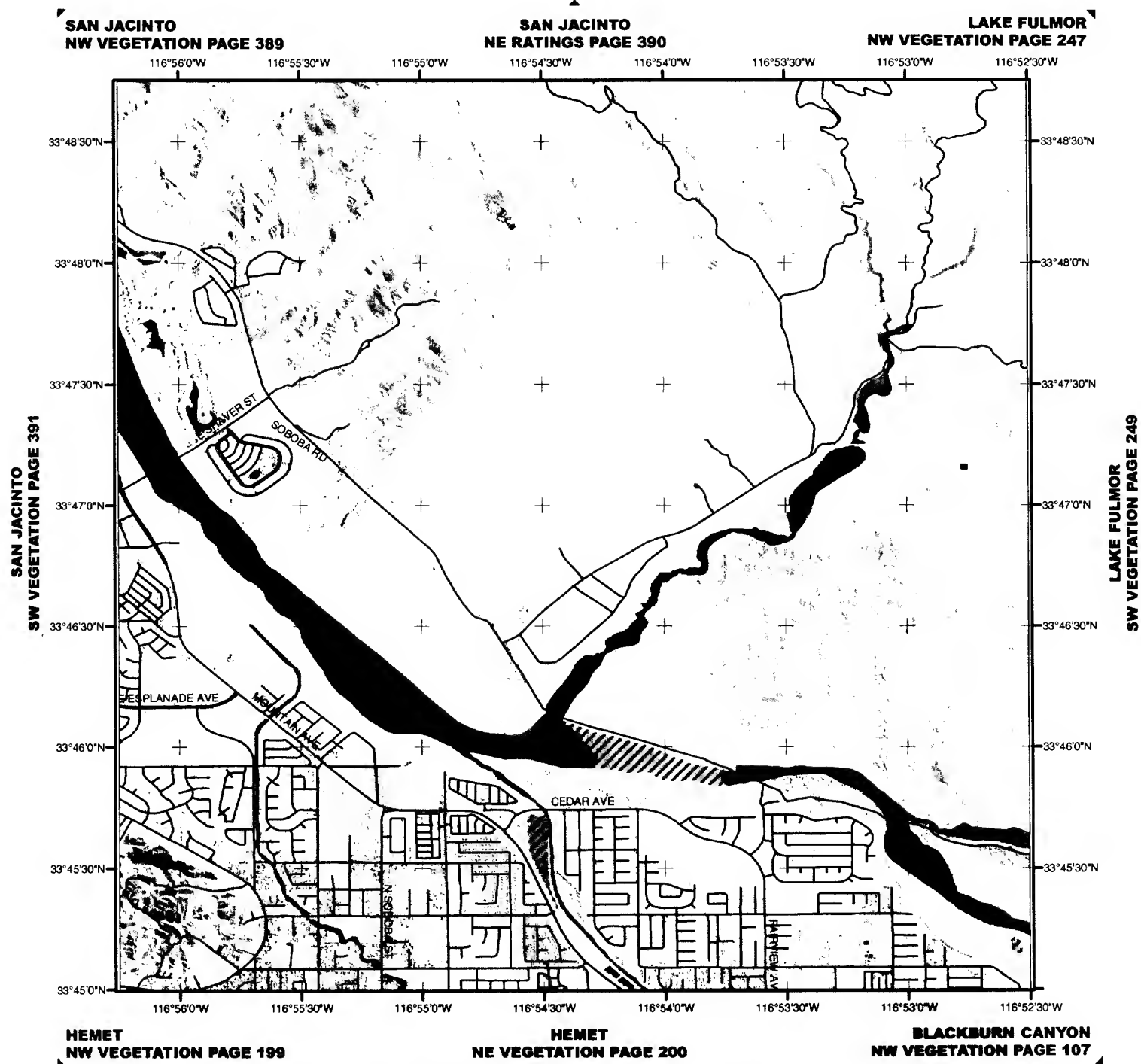
## Vegetation Species Association Units for Aquatic Resources



# San Jacinto South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

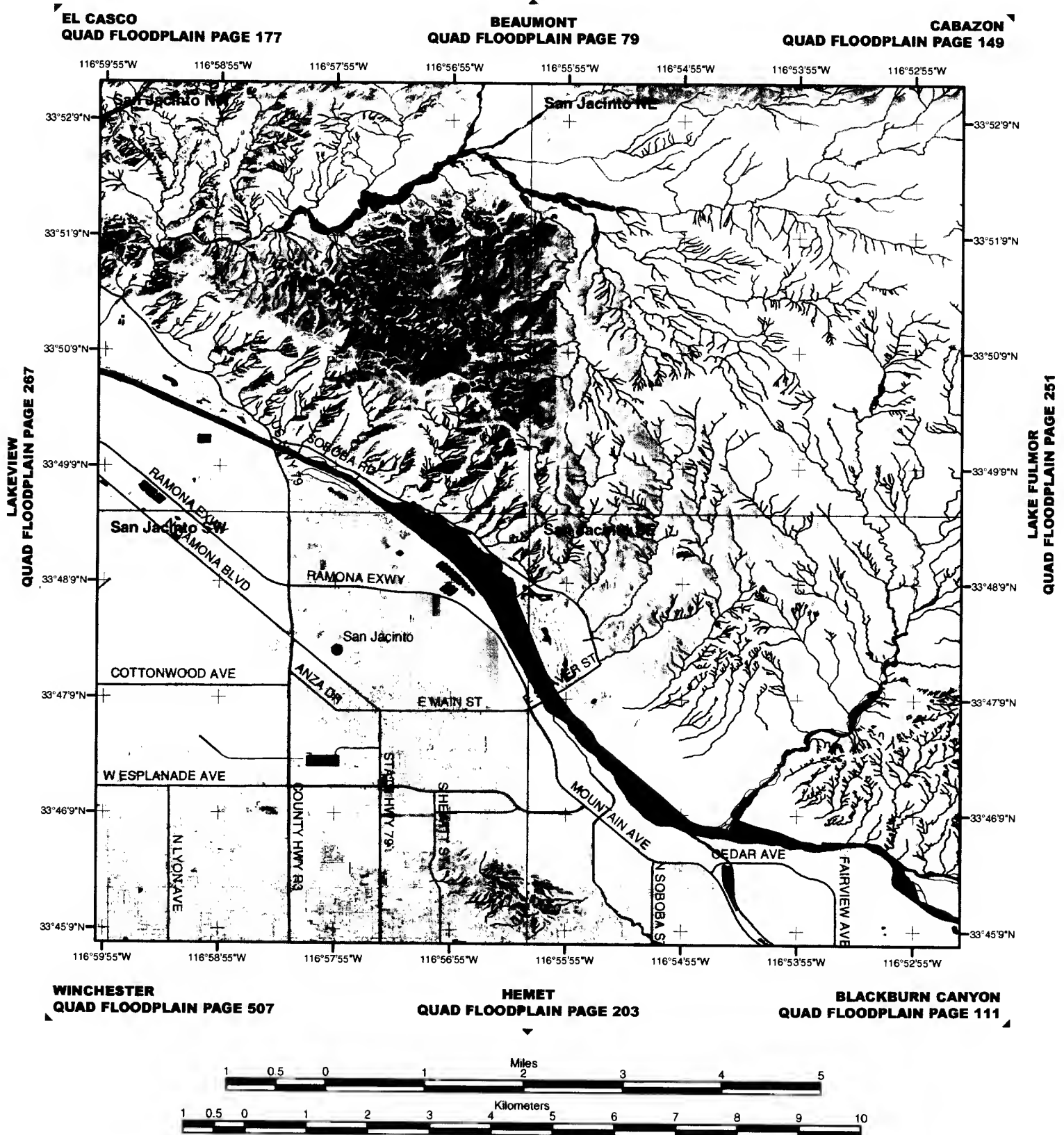


# San Jacinto South East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



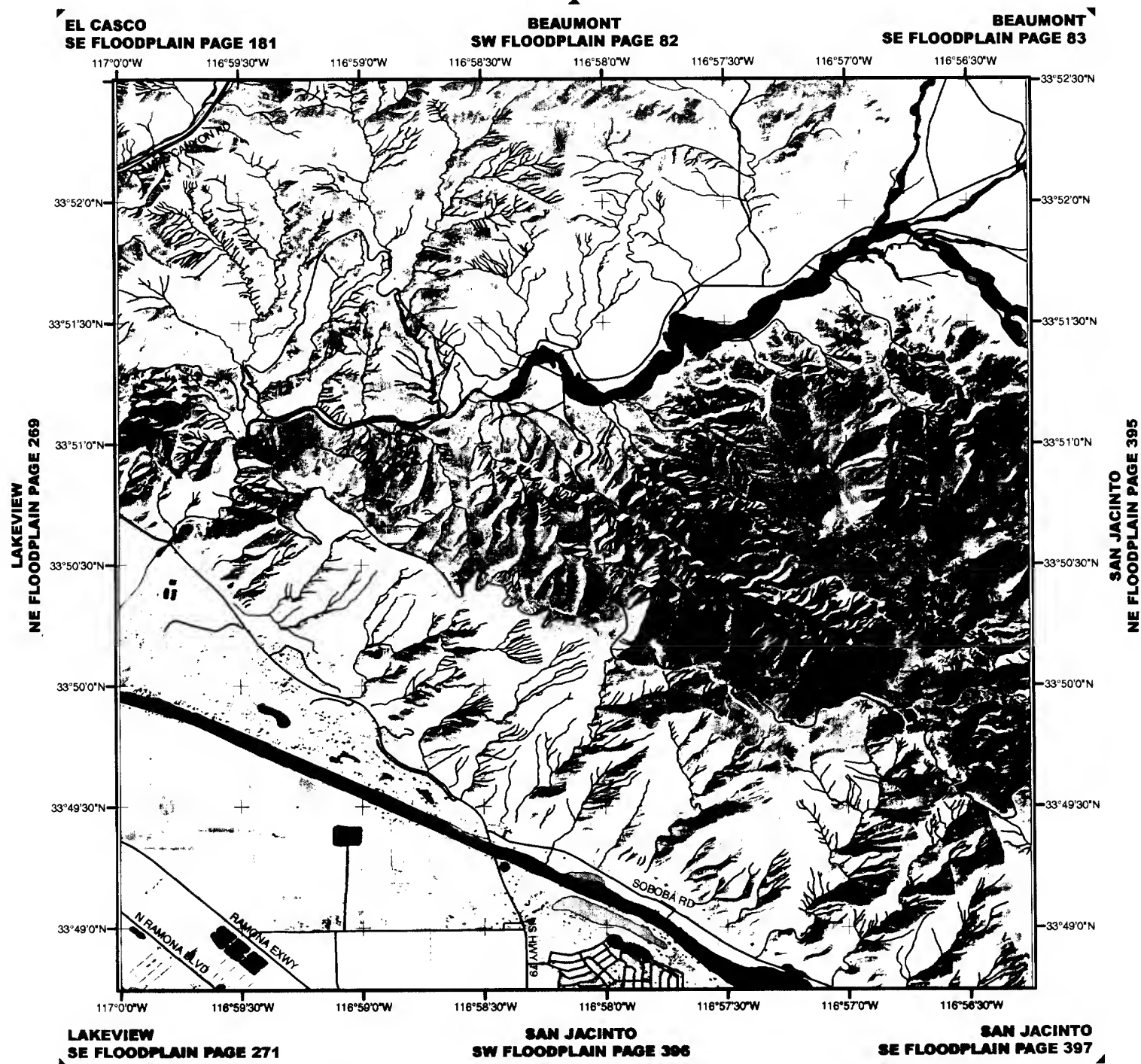
# San Jacinto Quadrangle

## Hydrogeomorphic Floodplain Units for Aquatic Resources

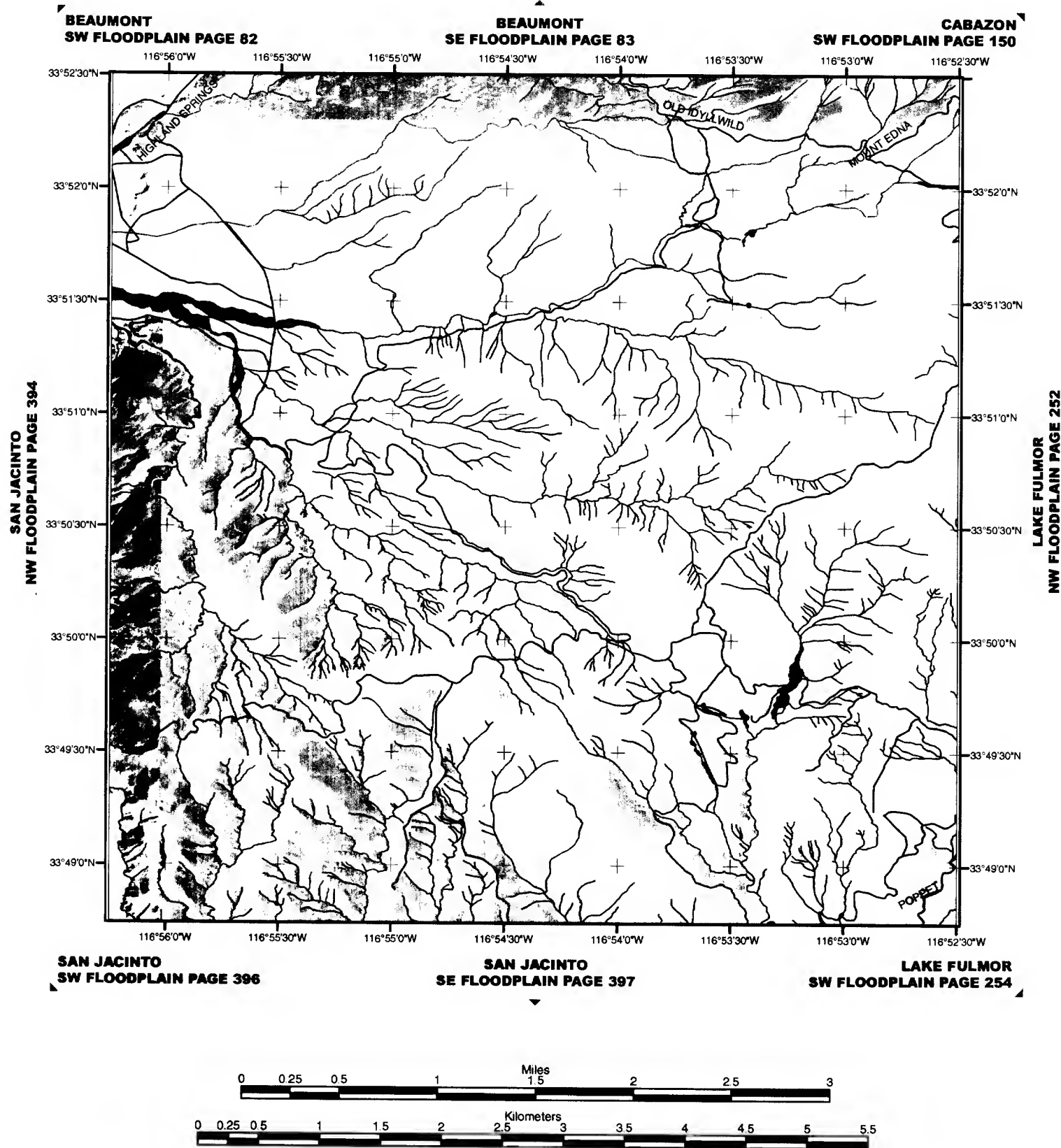




# San Jacinto North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

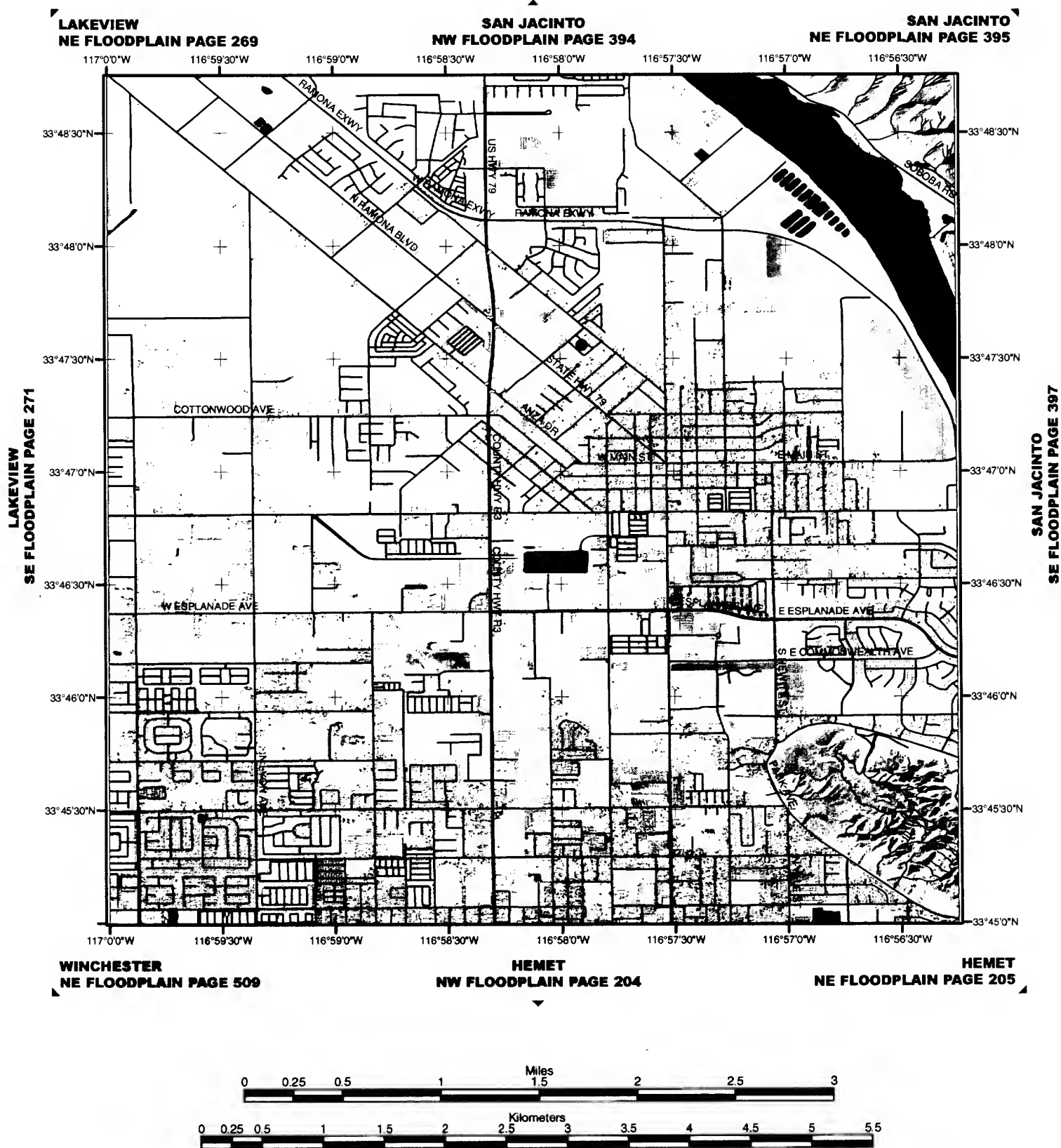


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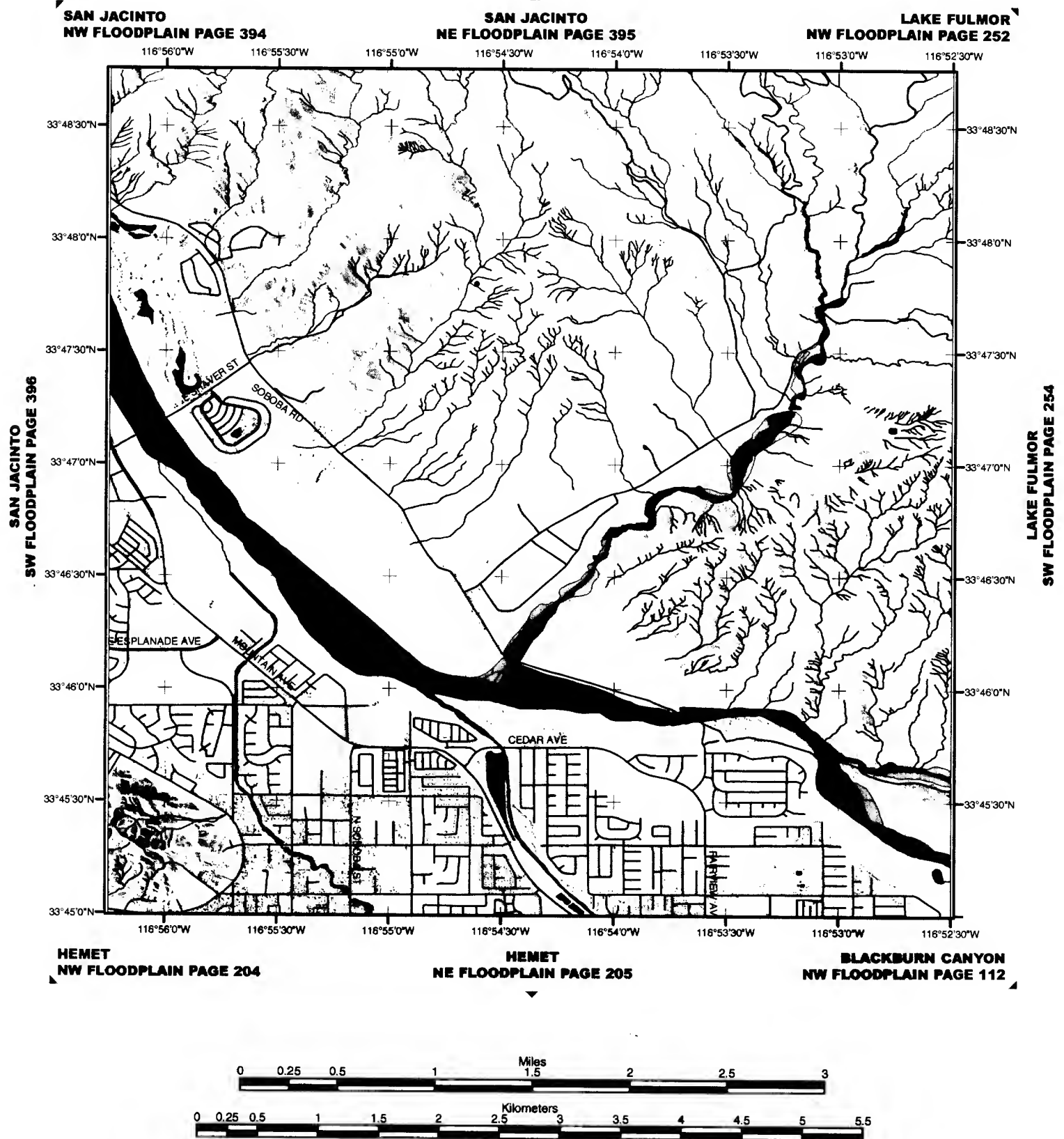




# San Jacinto South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



# San Jacinto South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

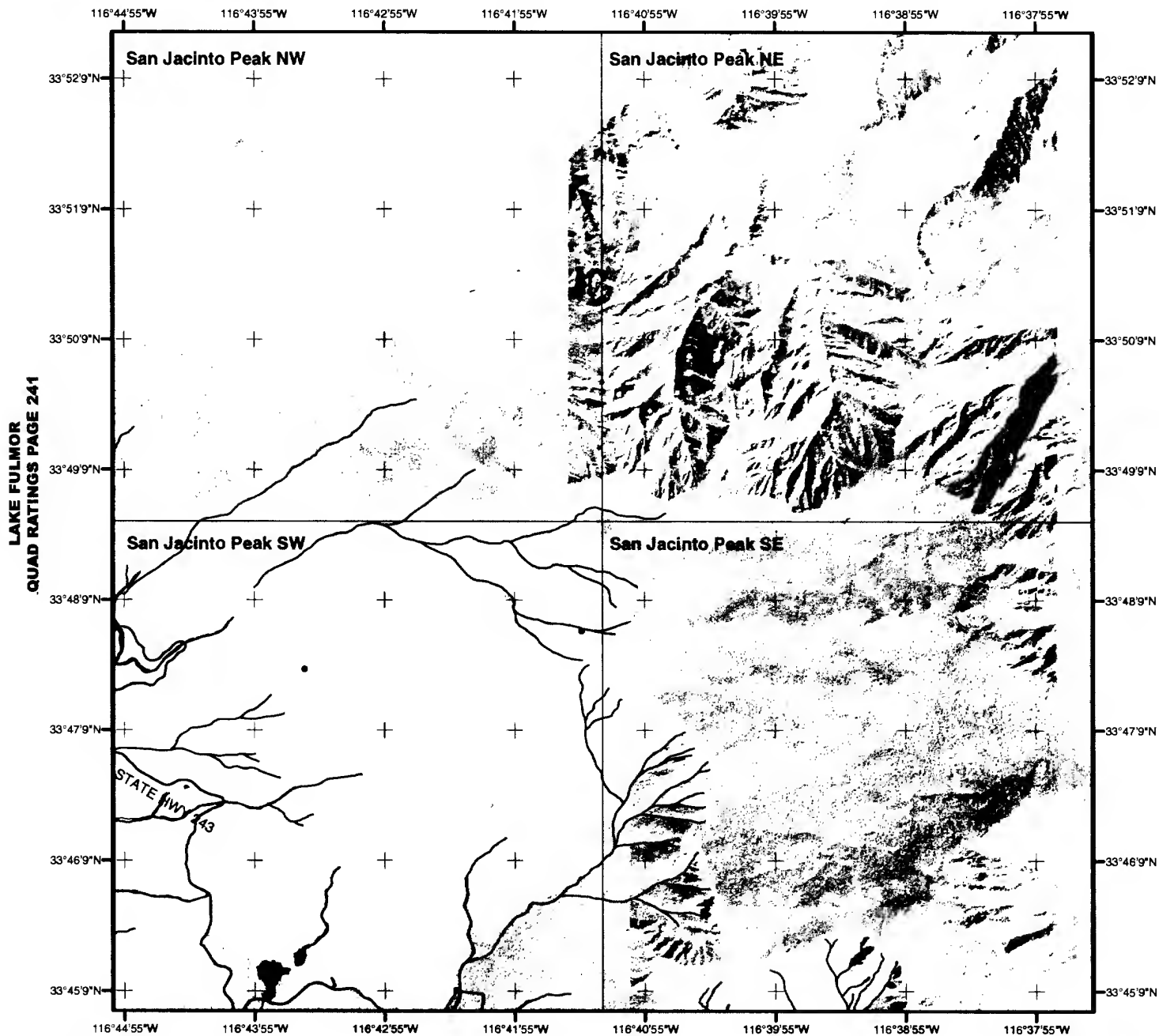




# San Jacinto Peak Quadrangle

## Regulatory Probability Ratings for Aquatic Resources

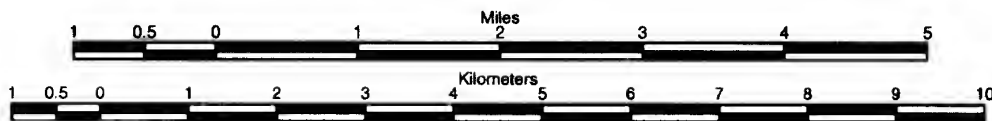
**CABAZON**  
QUAD RATINGS PAGE 145



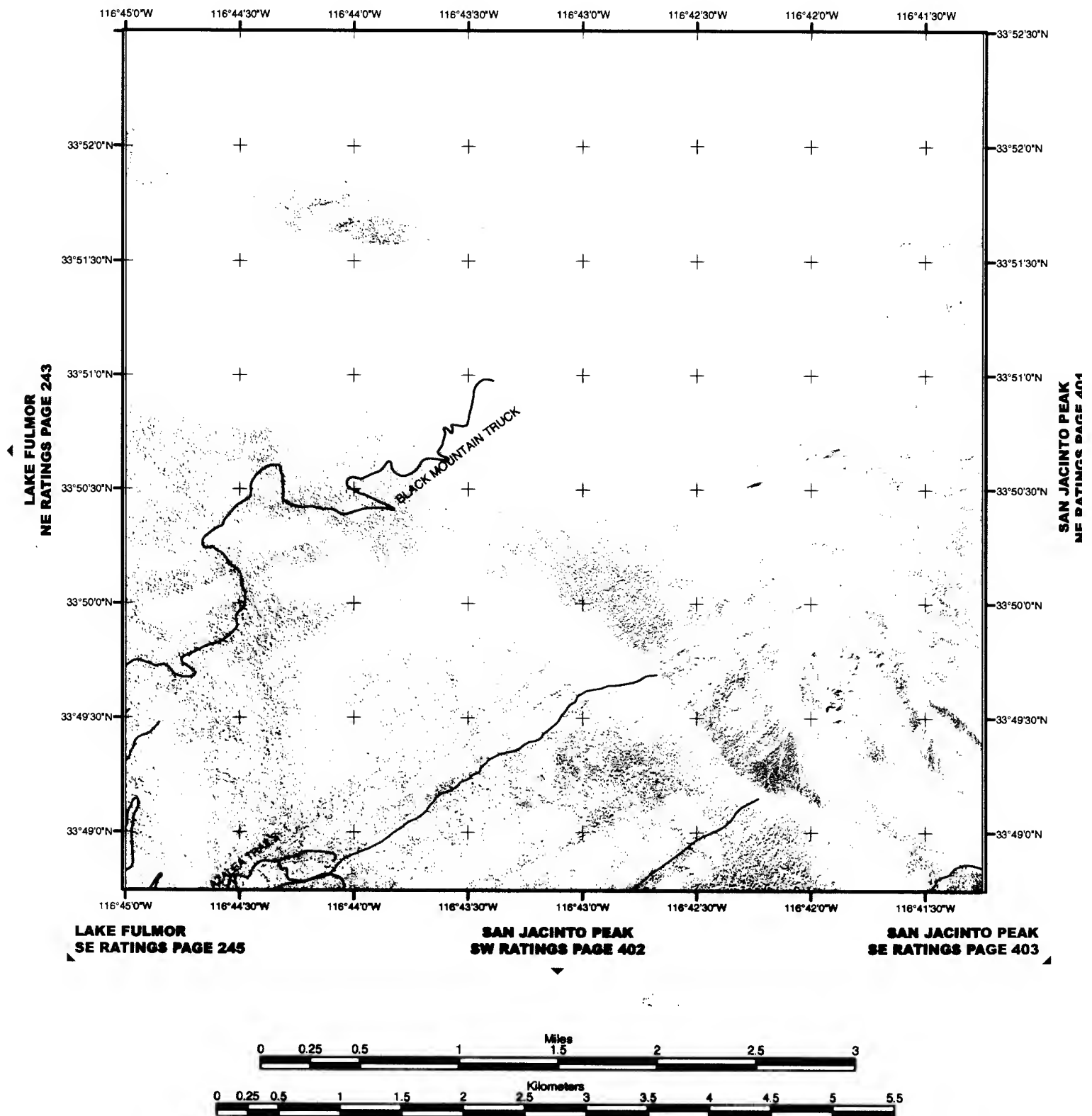
**BLACKBURN CANYON**  
QUAD RATINGS PAGE 101

**IDYLLWILD**  
QUAD RATINGS PAGE 209

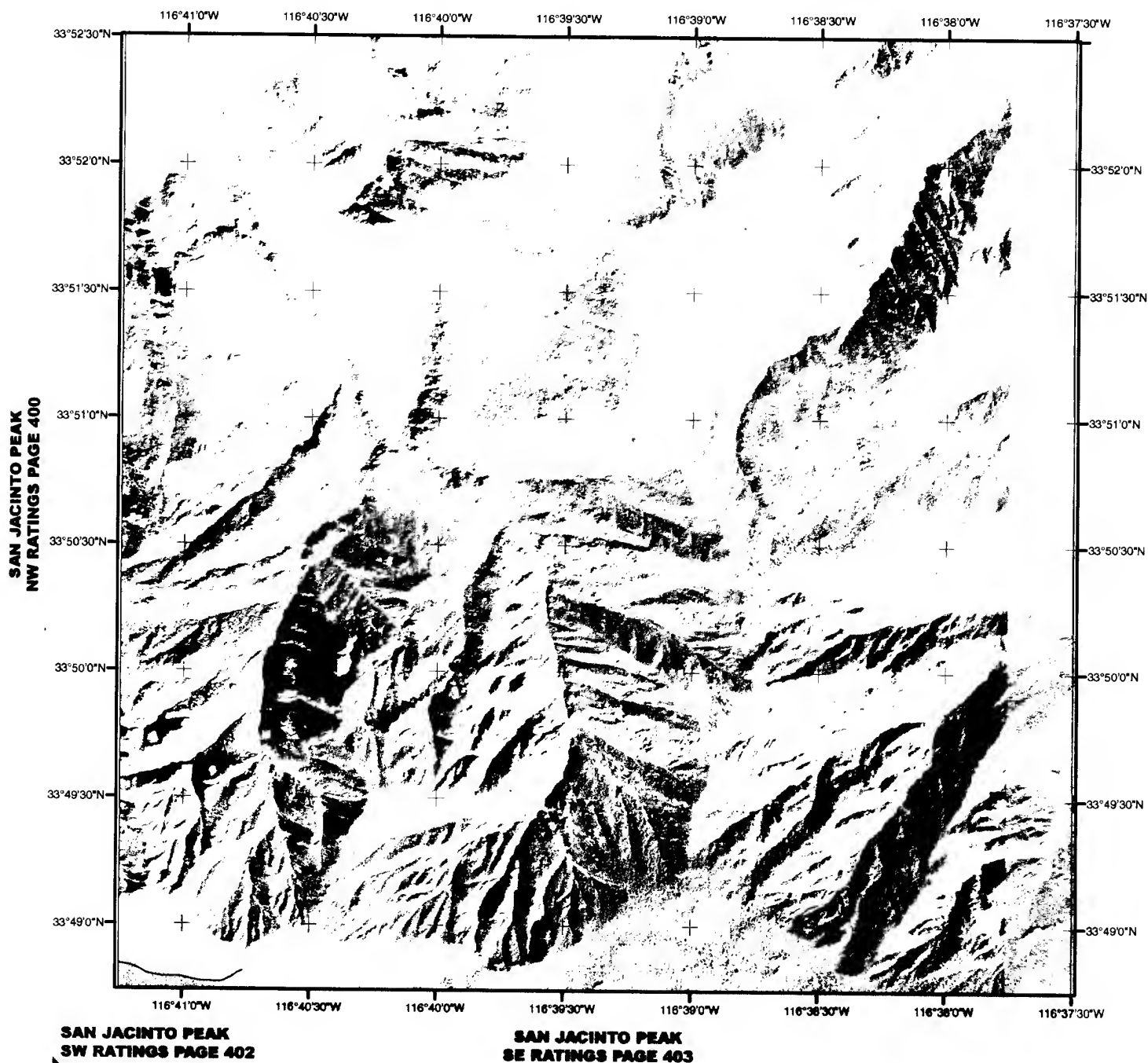
**PALM VIEW PEAK**  
QUAD RATINGS PAGE 289



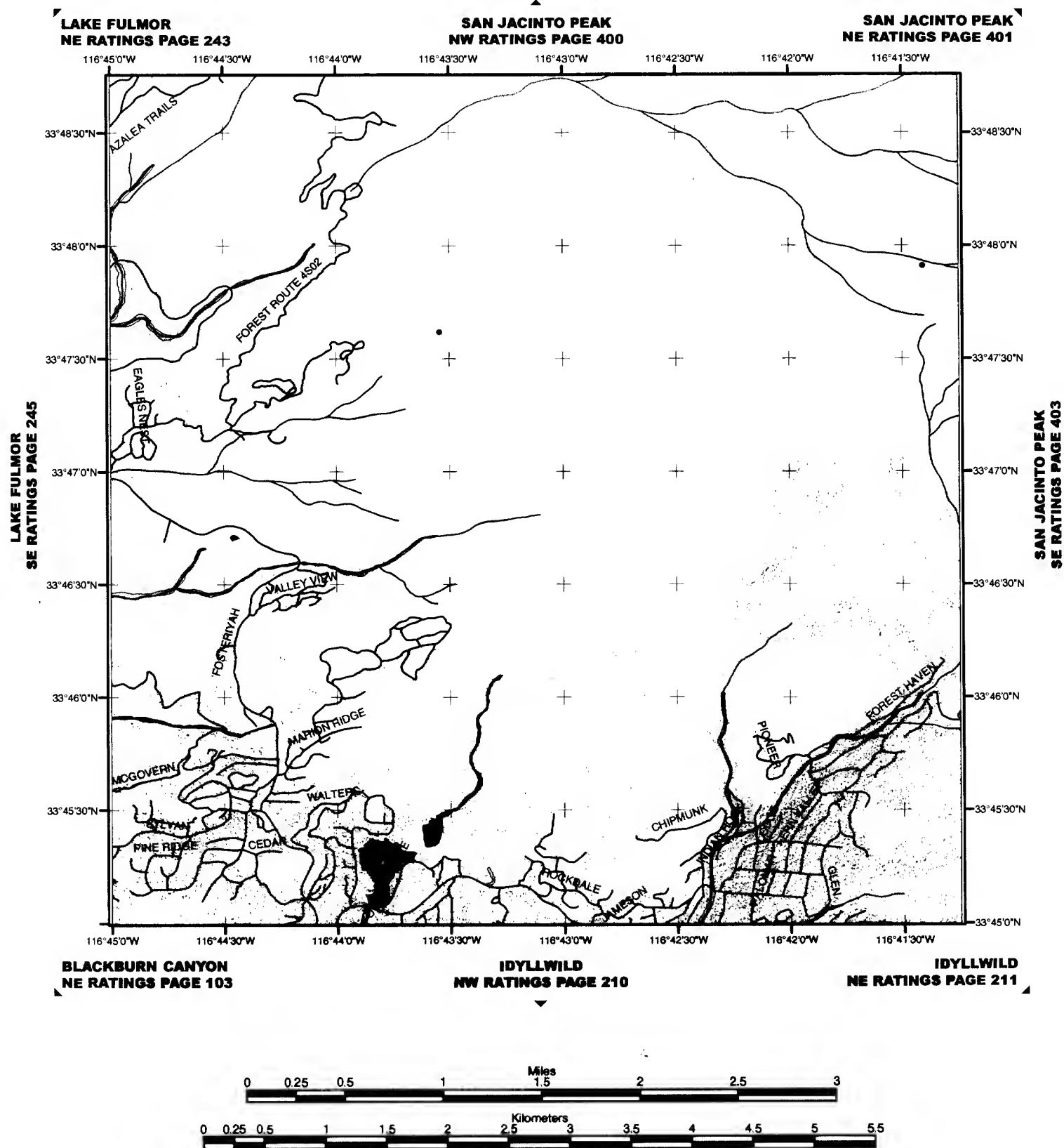
# San Jacinto Peak North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



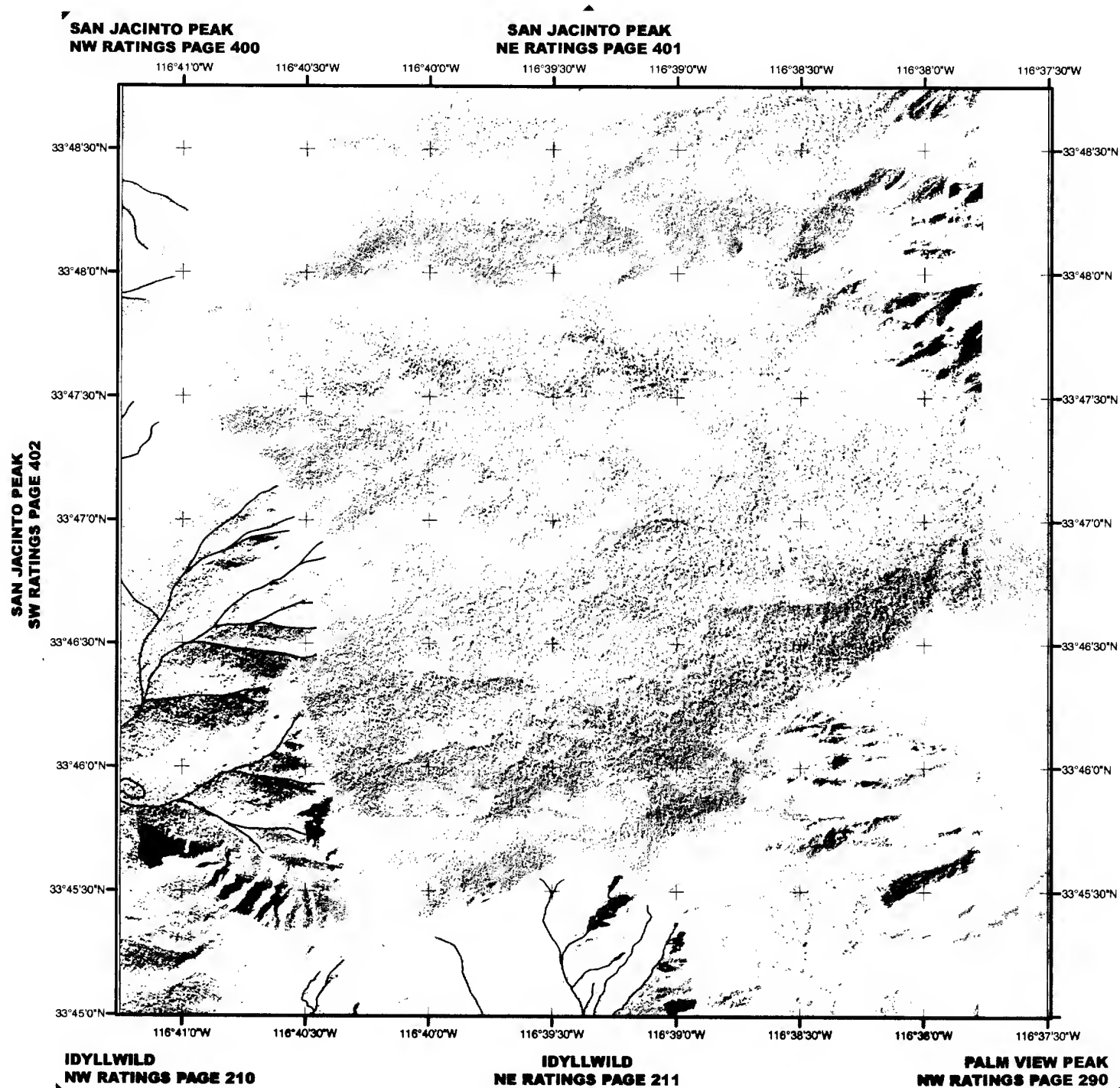
# San Jacinto Peak North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



# San Jacinto Peak South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



# San Jacinto Peak South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

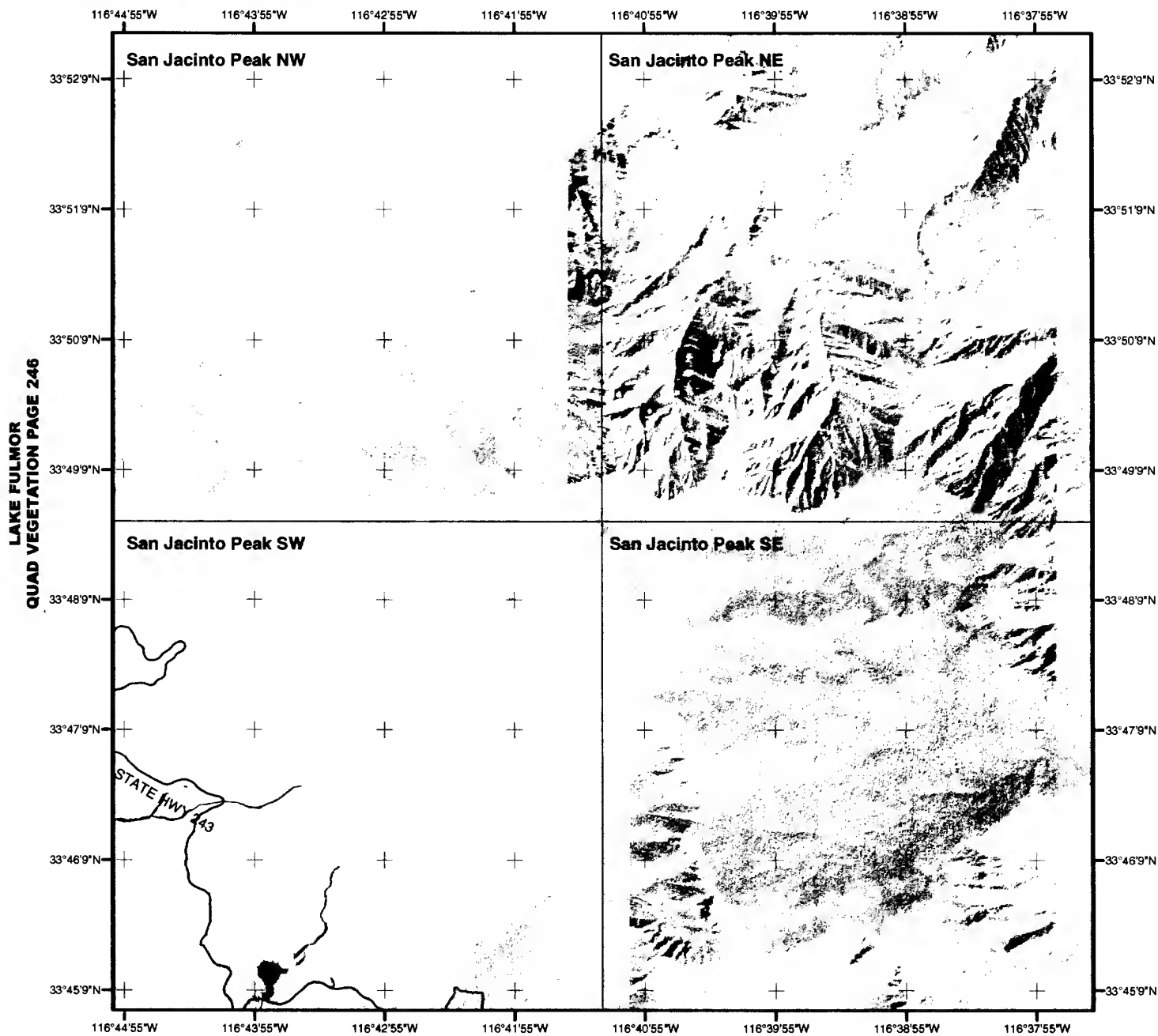




# San Jacinto Peak Quadrangle

## Vegetation Species Association Units for Aquatic Resources

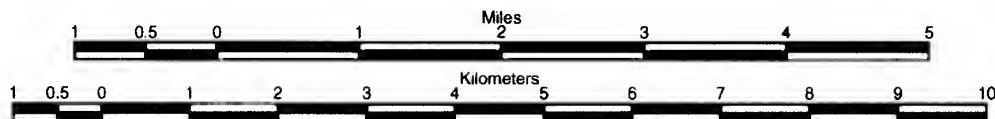
**CABAZON**  
**QUAD VEGETATION PAGE 147**



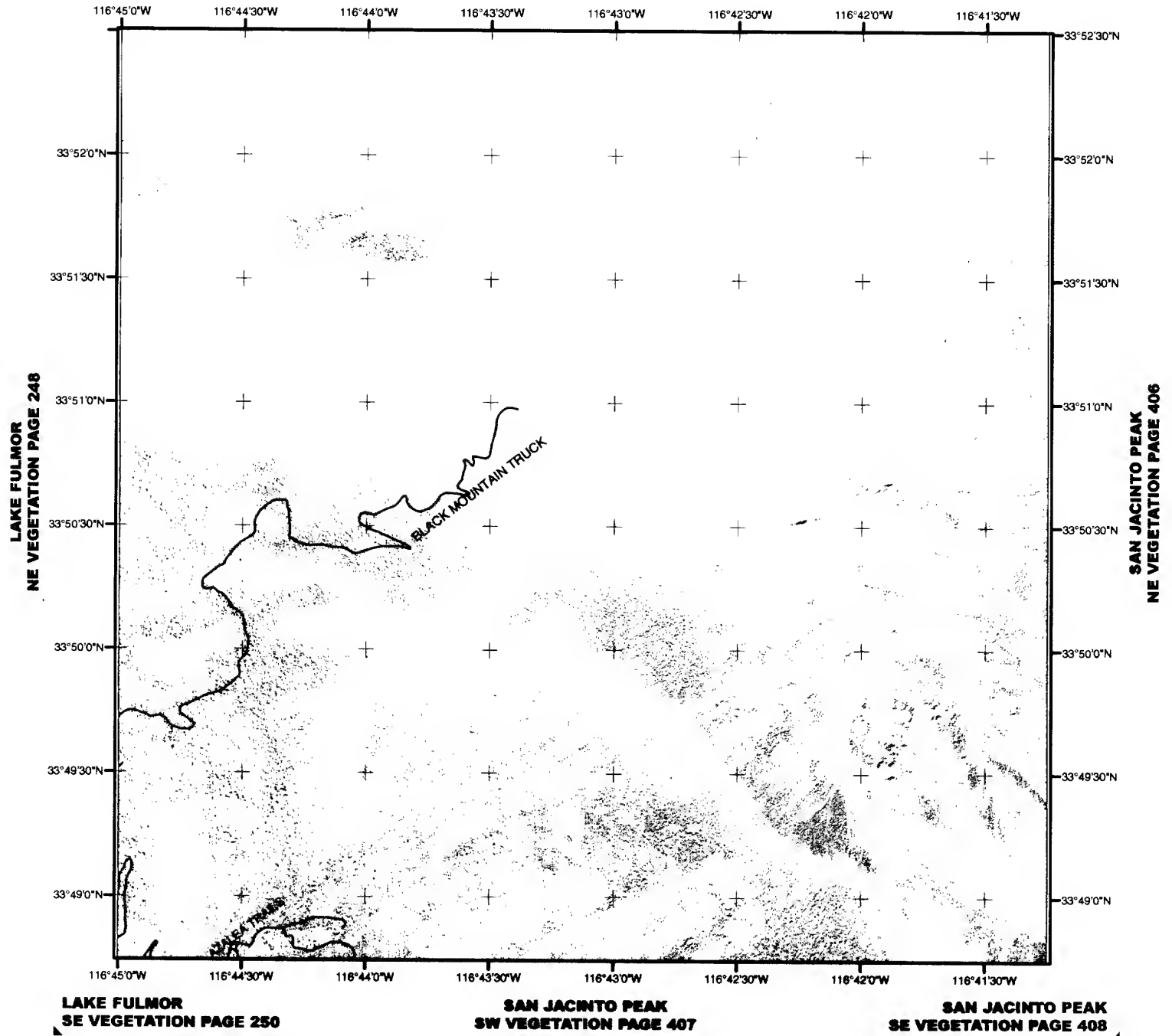
**BLACKBURN CANYON**  
**QUAD VEGETATION PAGE 106**

**IDYLLWILD**  
**QUAD VEGETATION PAGE 214**

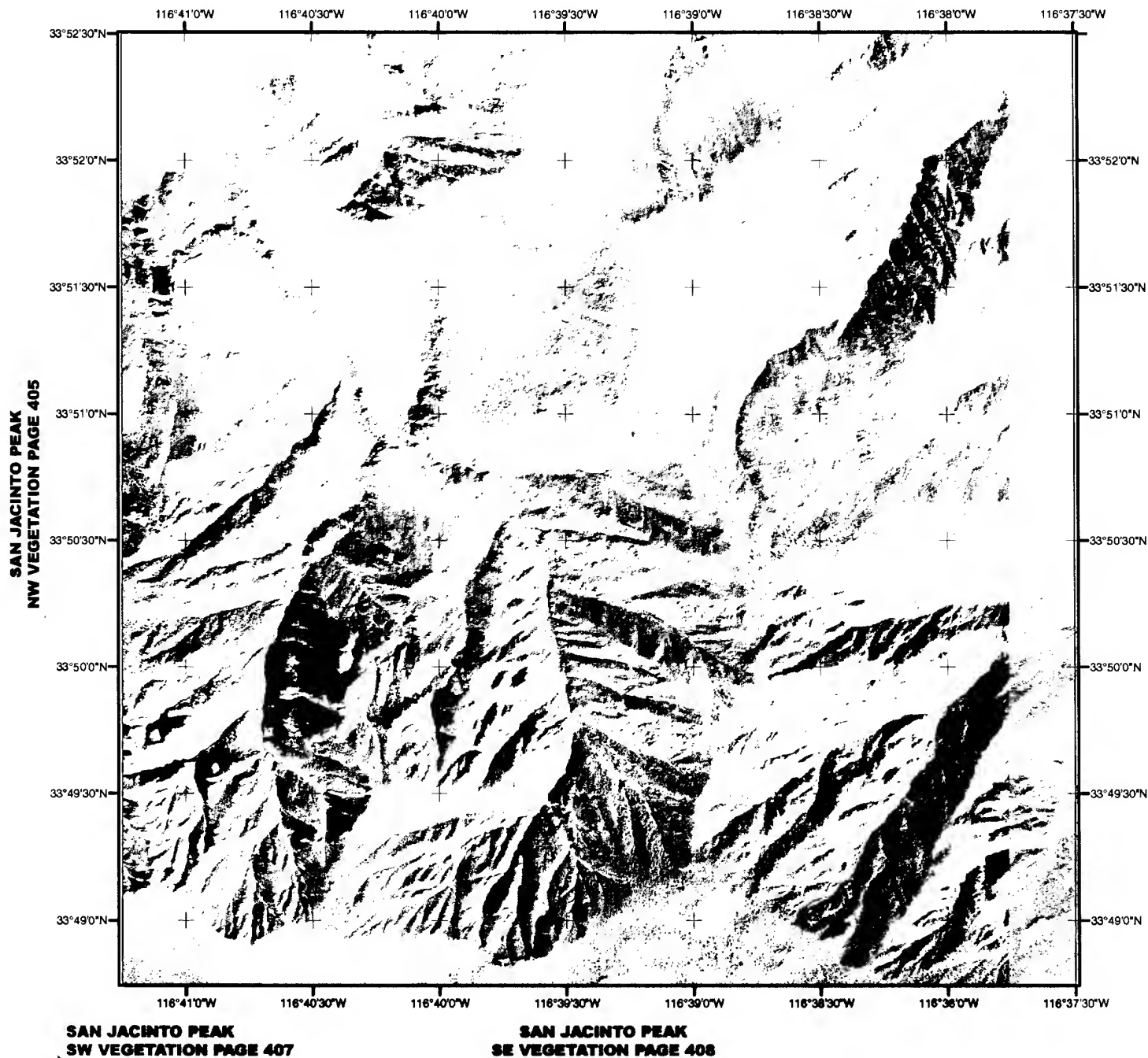
**PALM VIEW PEAK**  
**QUAD VEGETATION PAGE 292**



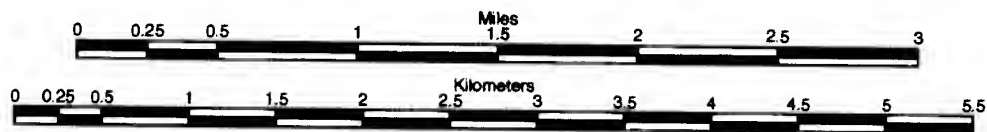
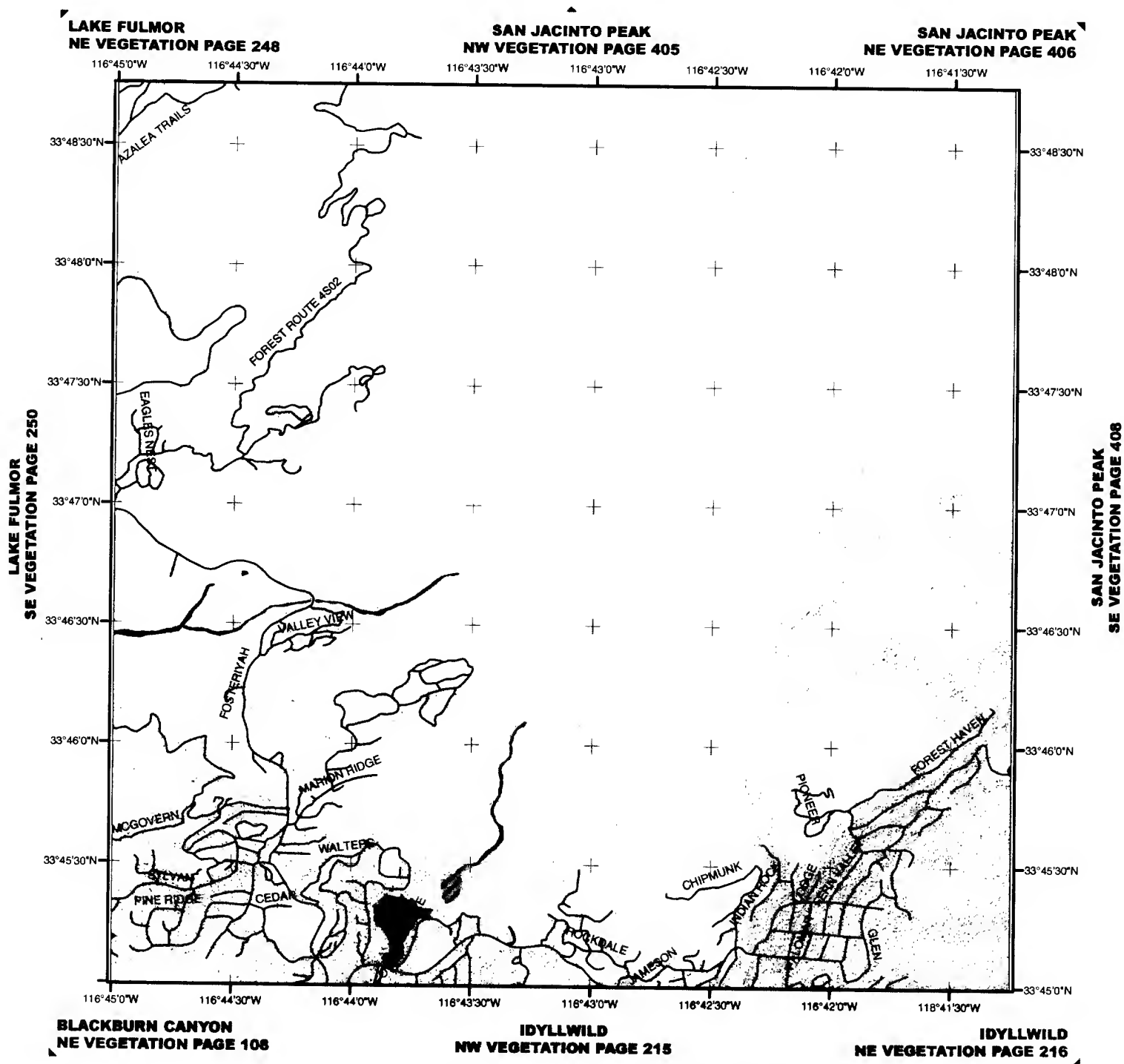
# San Jacinto Peak North West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



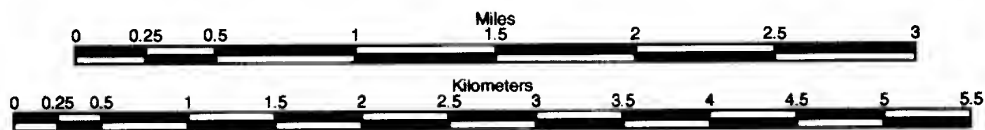
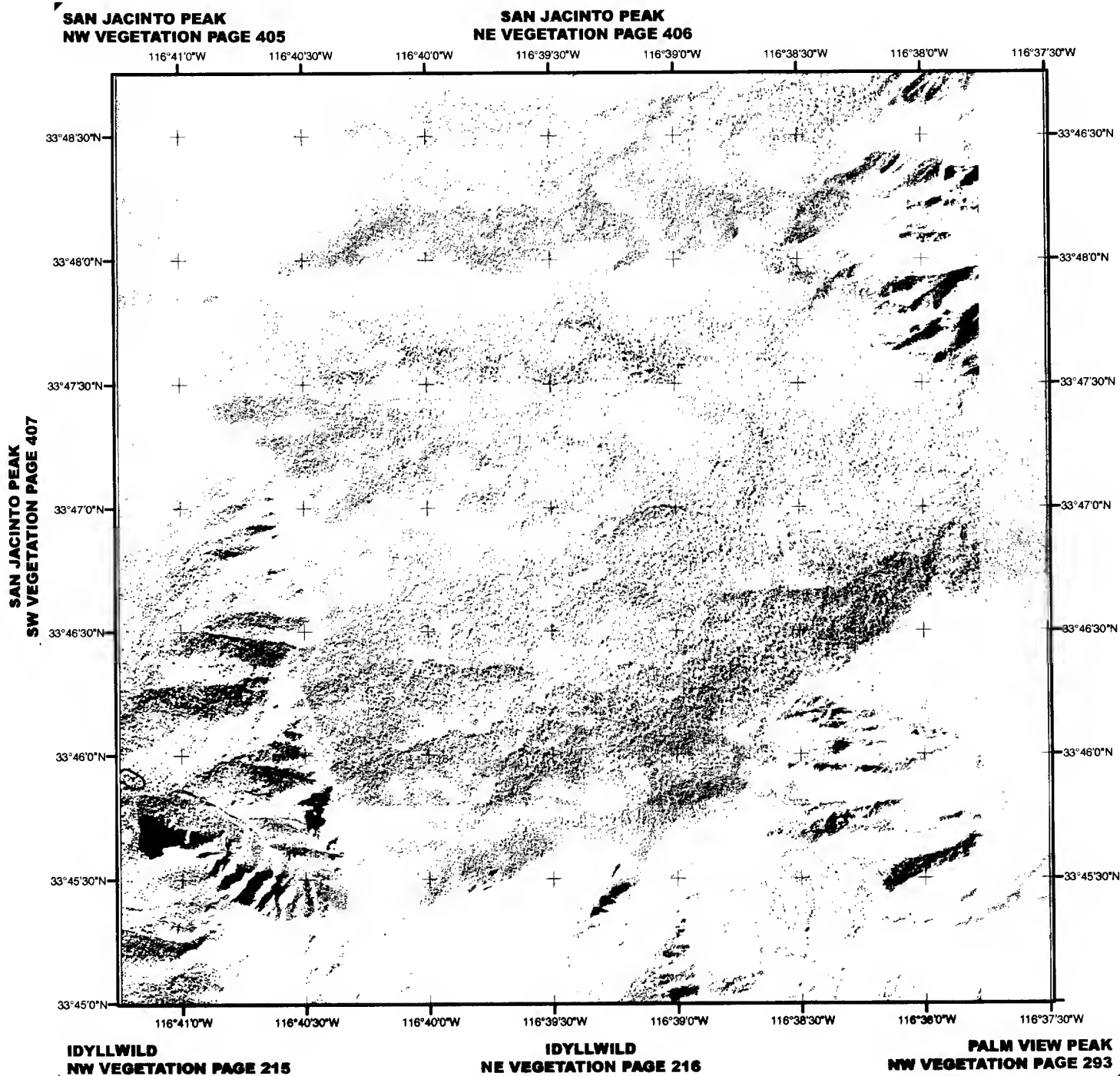
# San Jacinto Peak North East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



# San Jacinto Peak South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



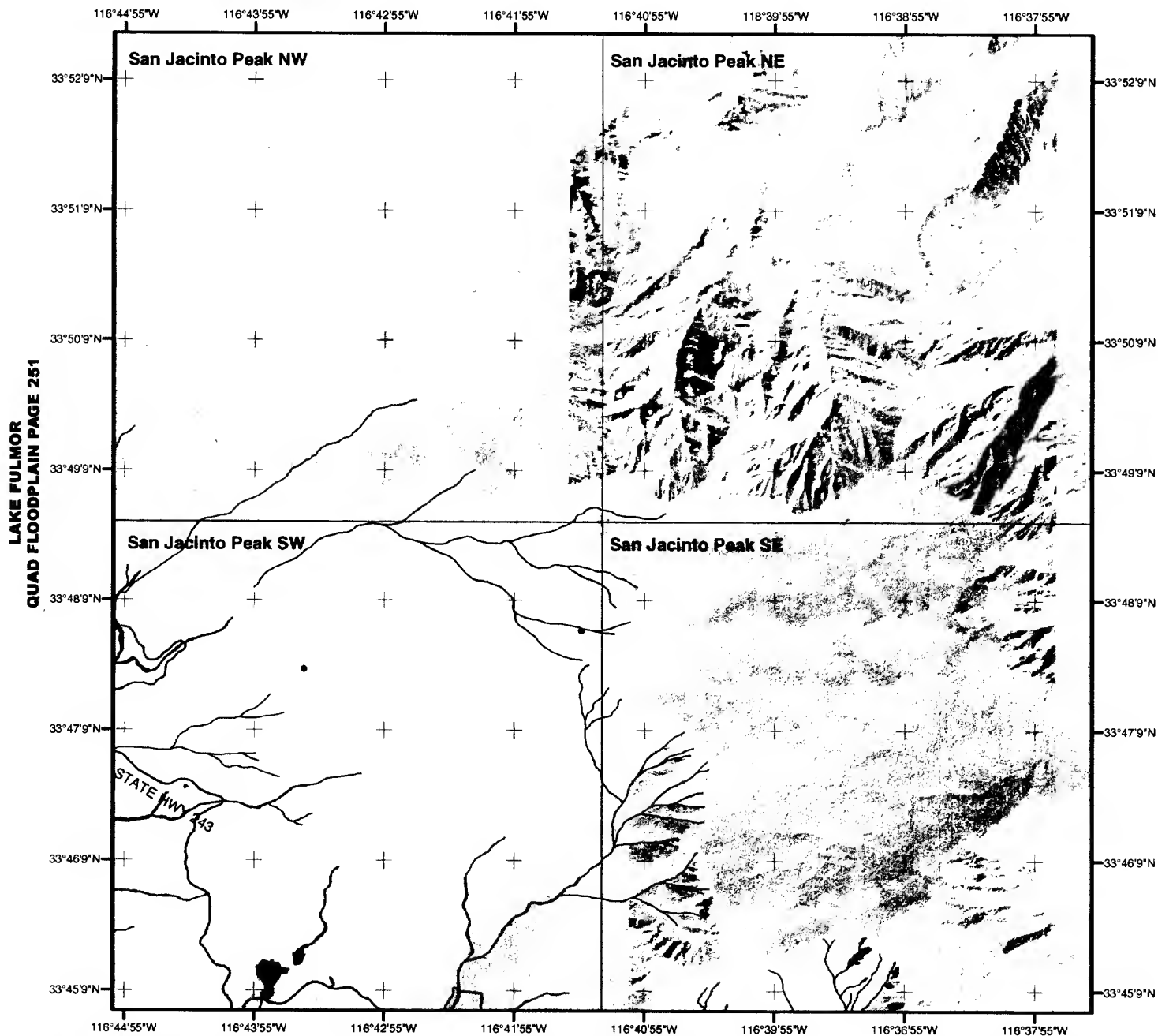
# San Jacinto Peak South East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



# San Jacinto Peak Quadrangle

## Hydrogeomorphic Floodplain Units for Aquatic Resources

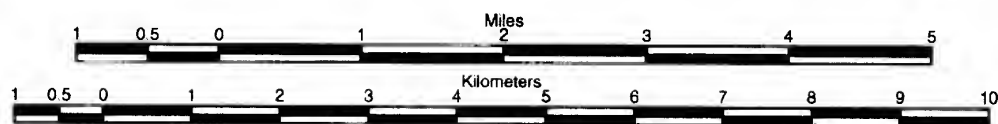
**CABAZON**  
QUAD FLOODPLAIN PAGE 149



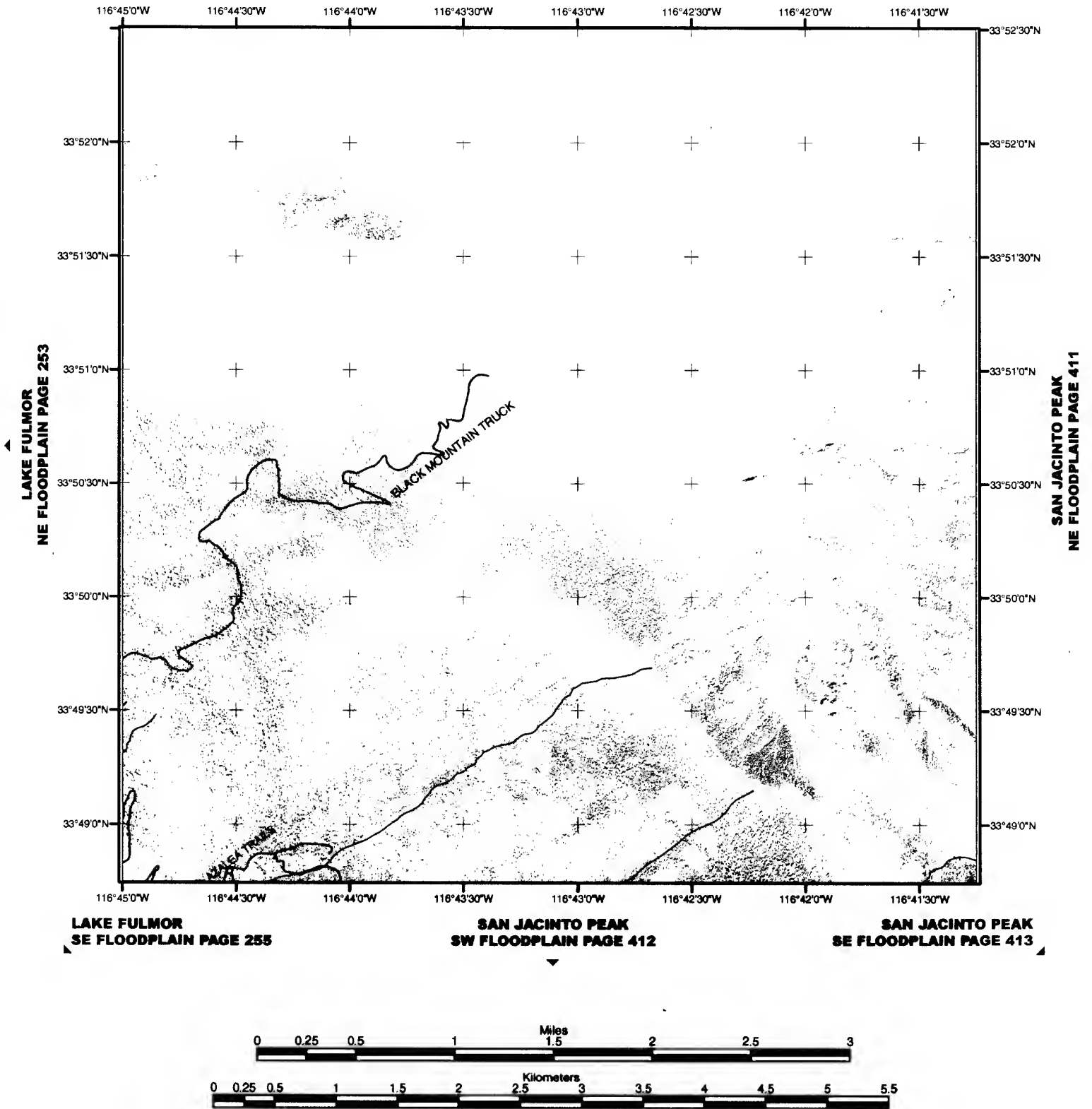
**BLACKBURN CANYON**  
QUAD FLOODPLAIN PAGE 111

**IDYLLWILD**  
QUAD FLOODPLAIN PAGE 219

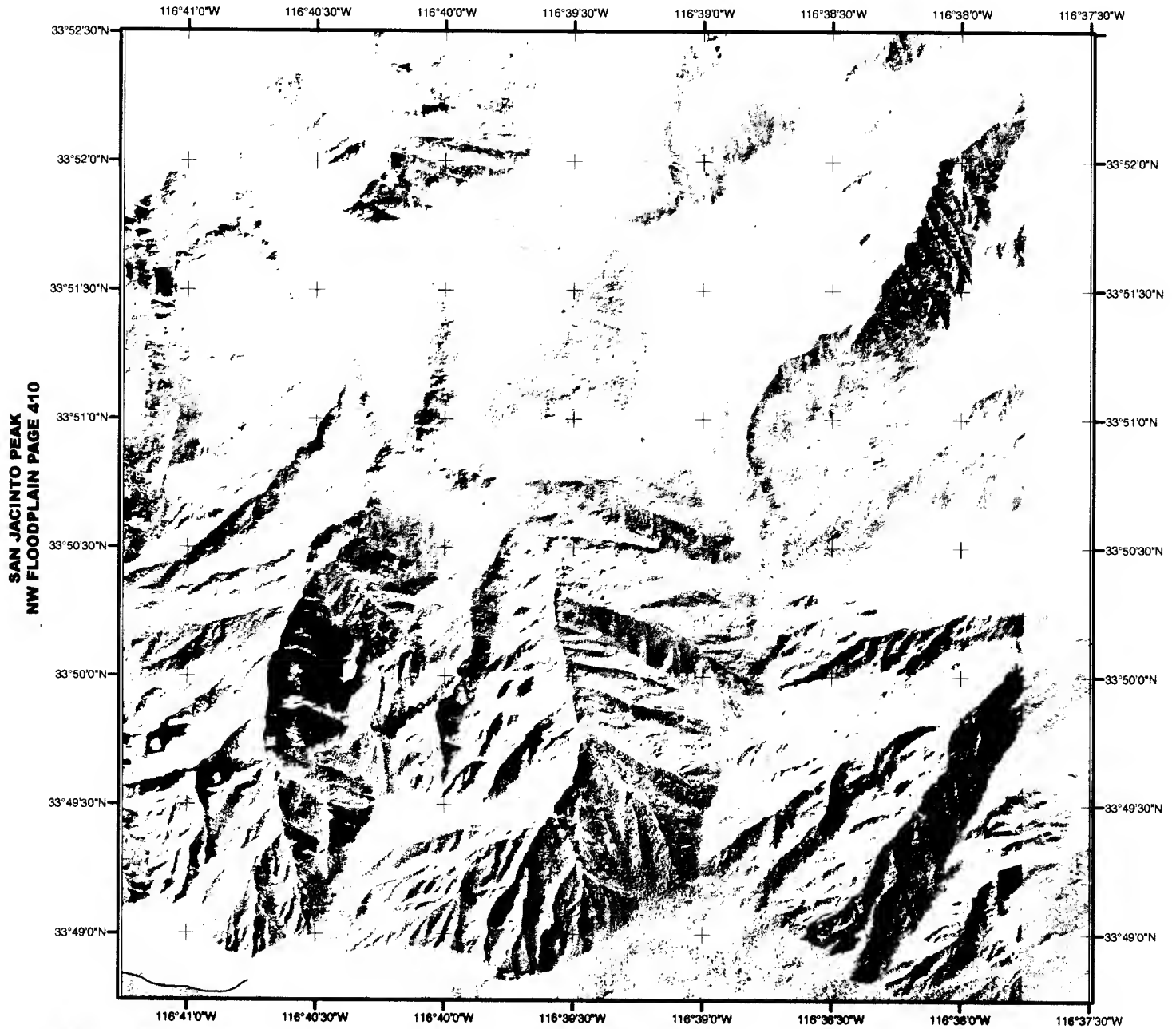
**PALM VIEW PEAK**  
QUAD FLOODPLAIN PAGE 295



# San Jacinto Peak North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



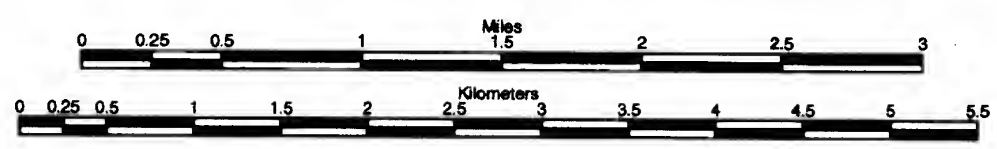
# San Jacinto Peak North East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



SAN JACINTO PEAK  
NW FLOODPLAIN PAGE 410

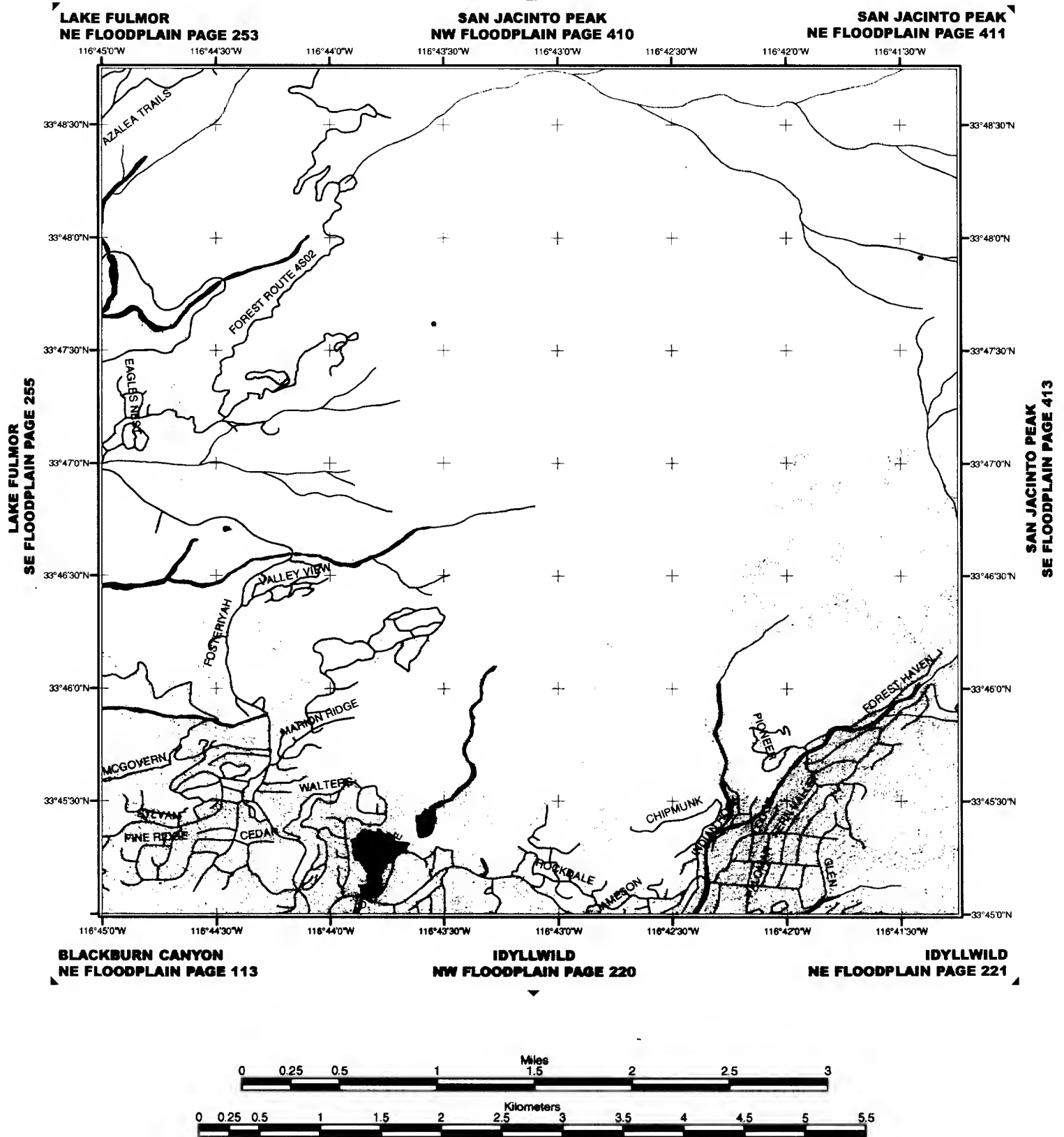
SAN JACINTO PEAK  
SW FLOODPLAIN PAGE 412

SAN JACINTO PEAK  
SE FLOODPLAIN PAGE 413

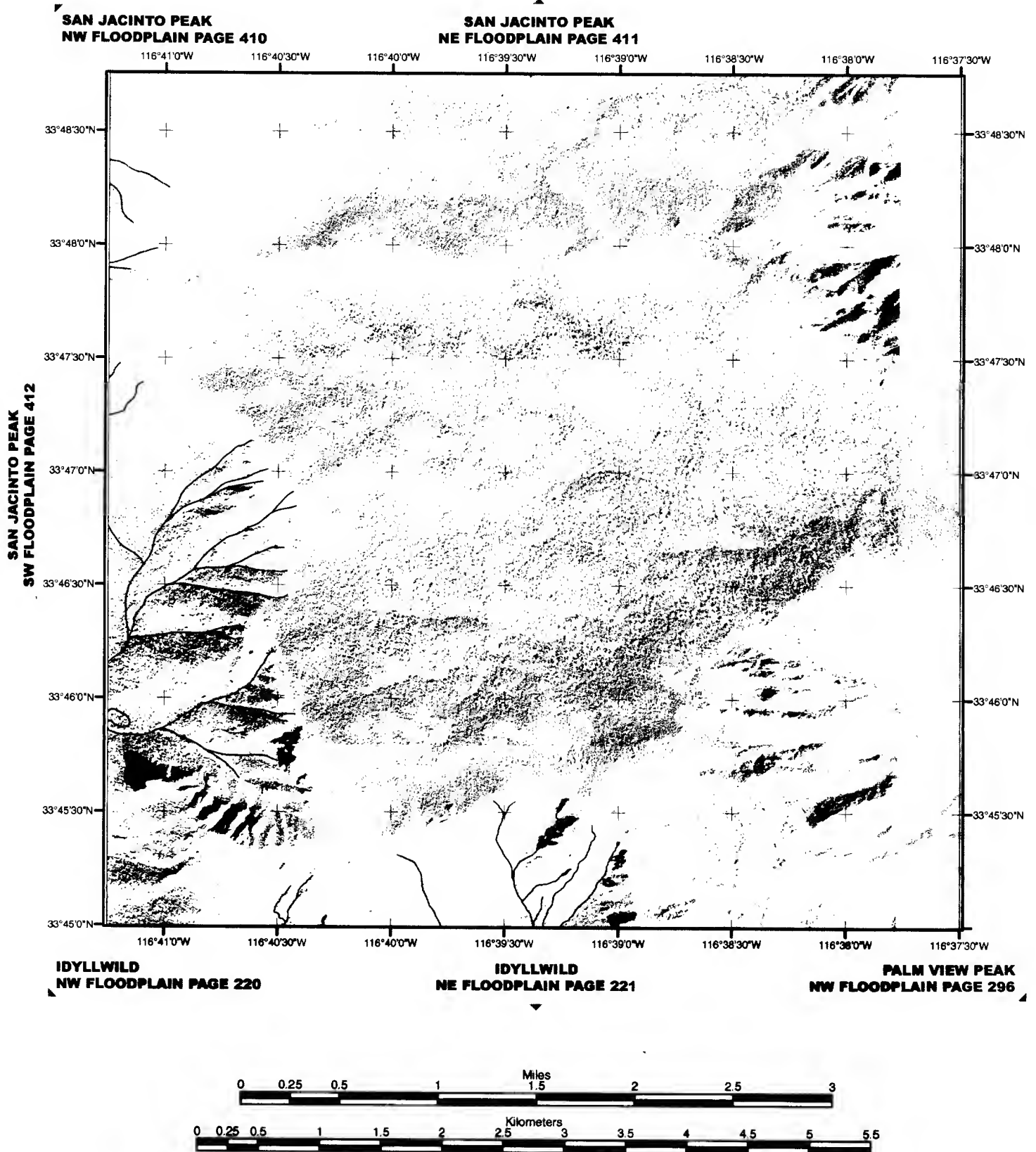




# San Jacinto Peak South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



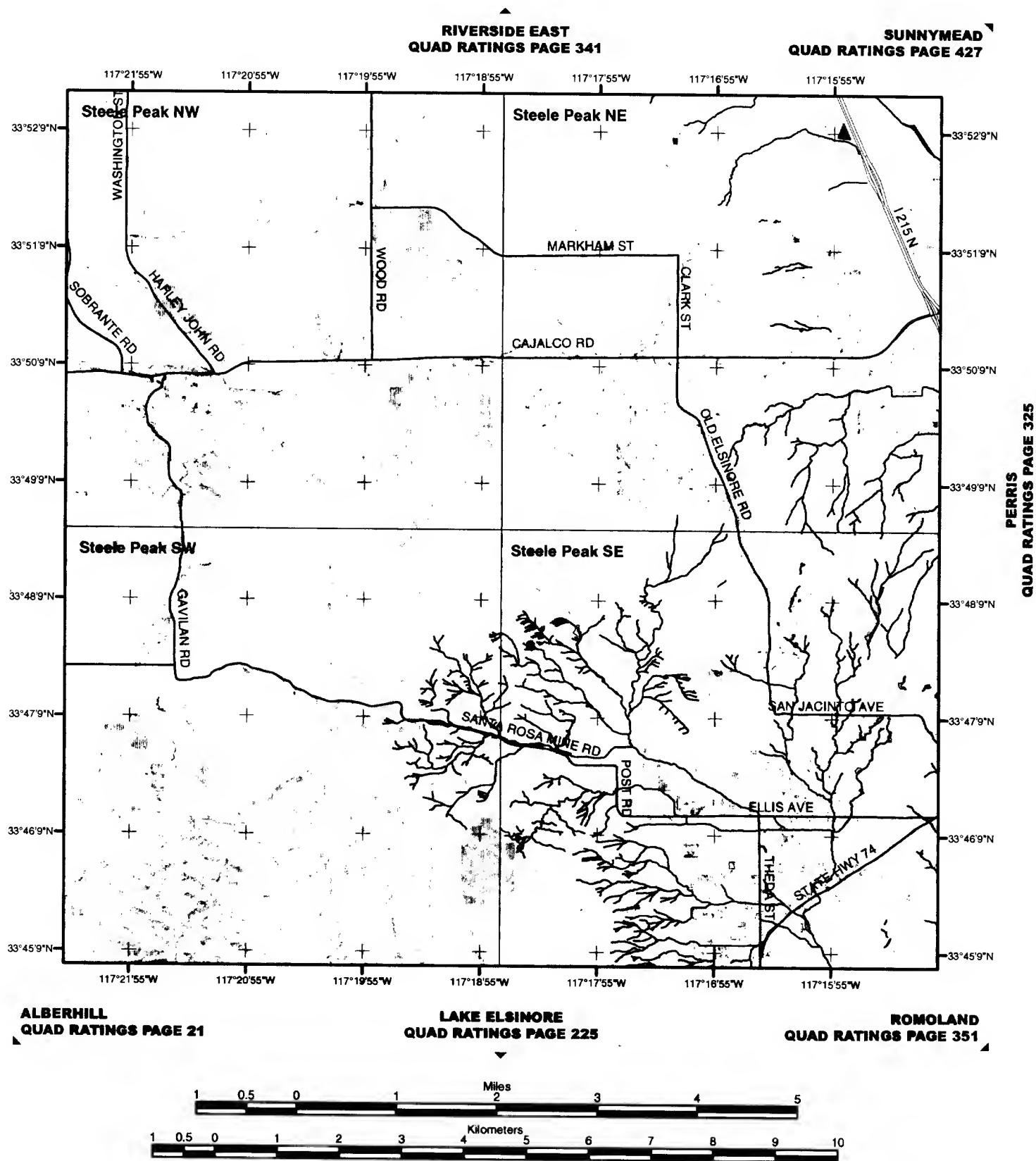
# San Jacinto Peak South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



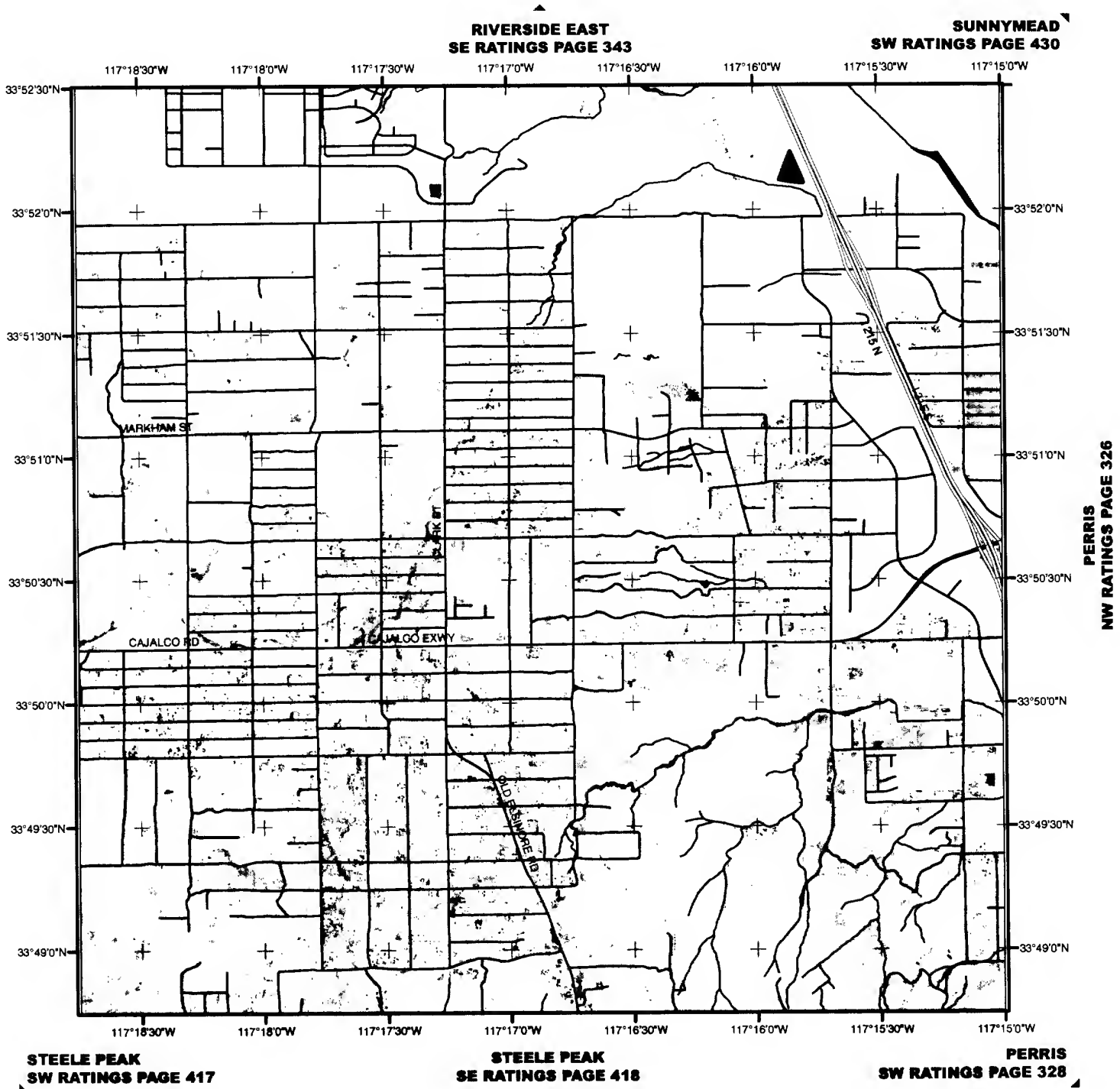


# Steele Peak Quadrangle

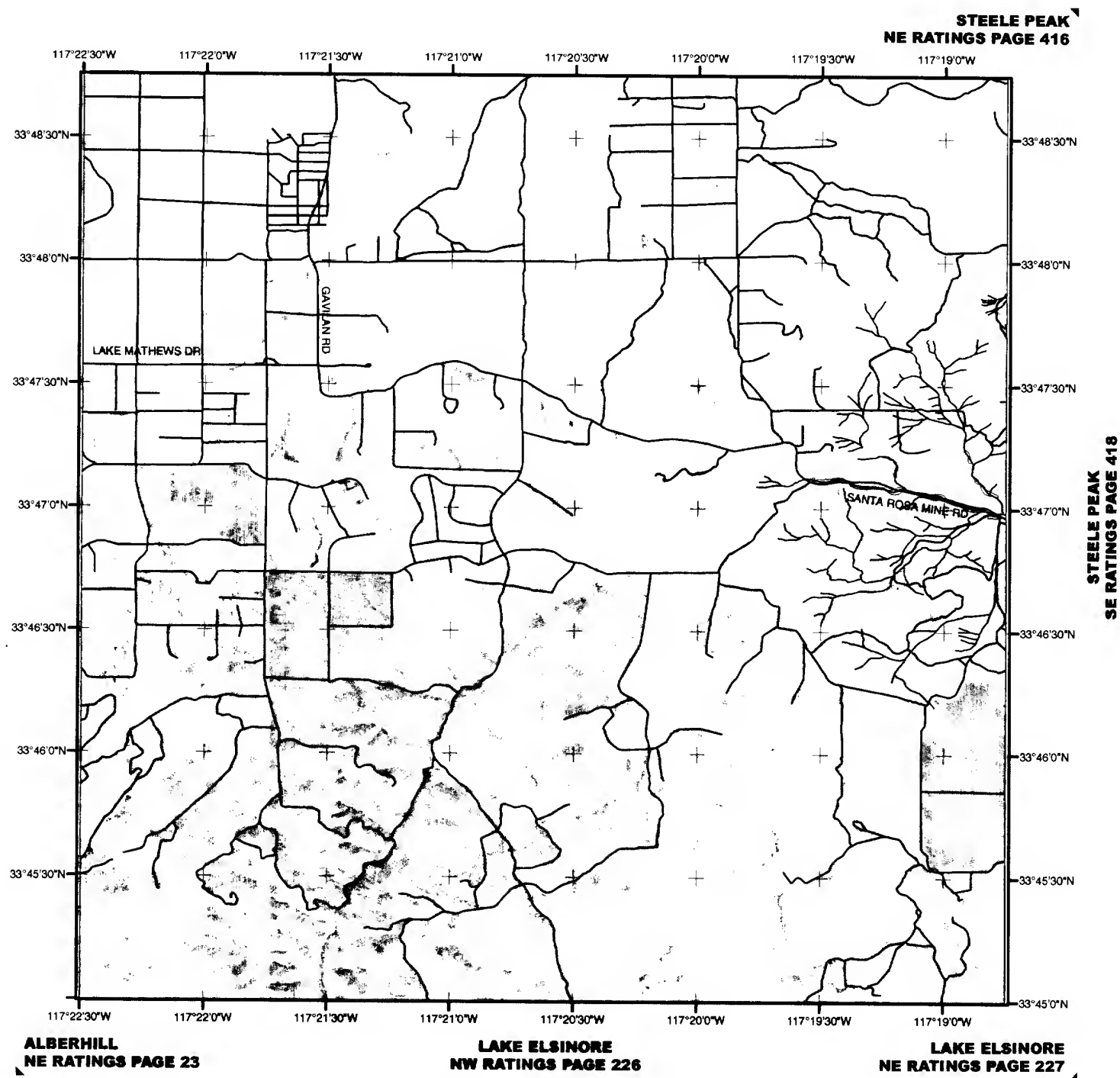
## Regulatory Probability Ratings for Aquatic Resources



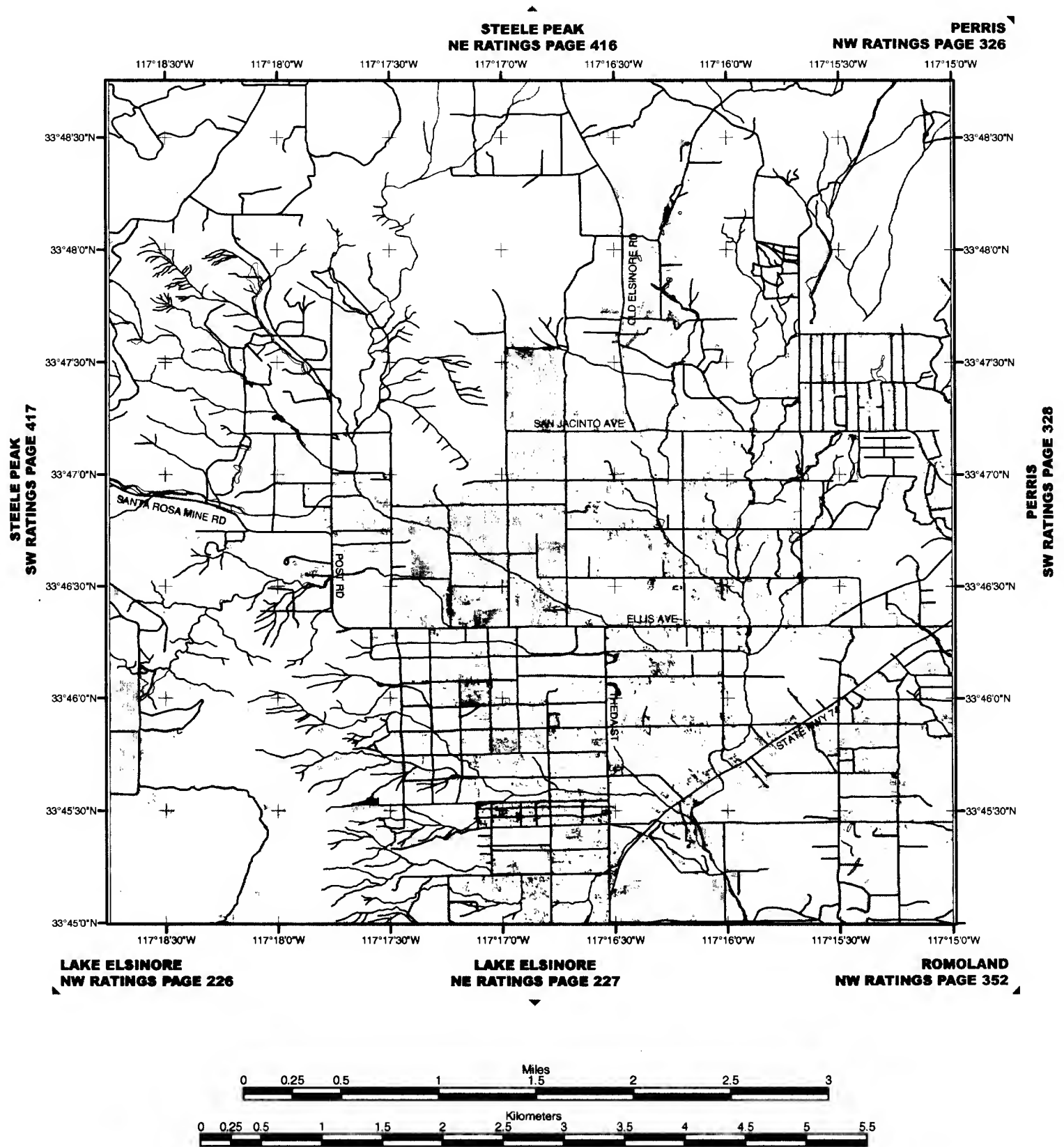
# Steele Peak North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



# Steele Peak South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

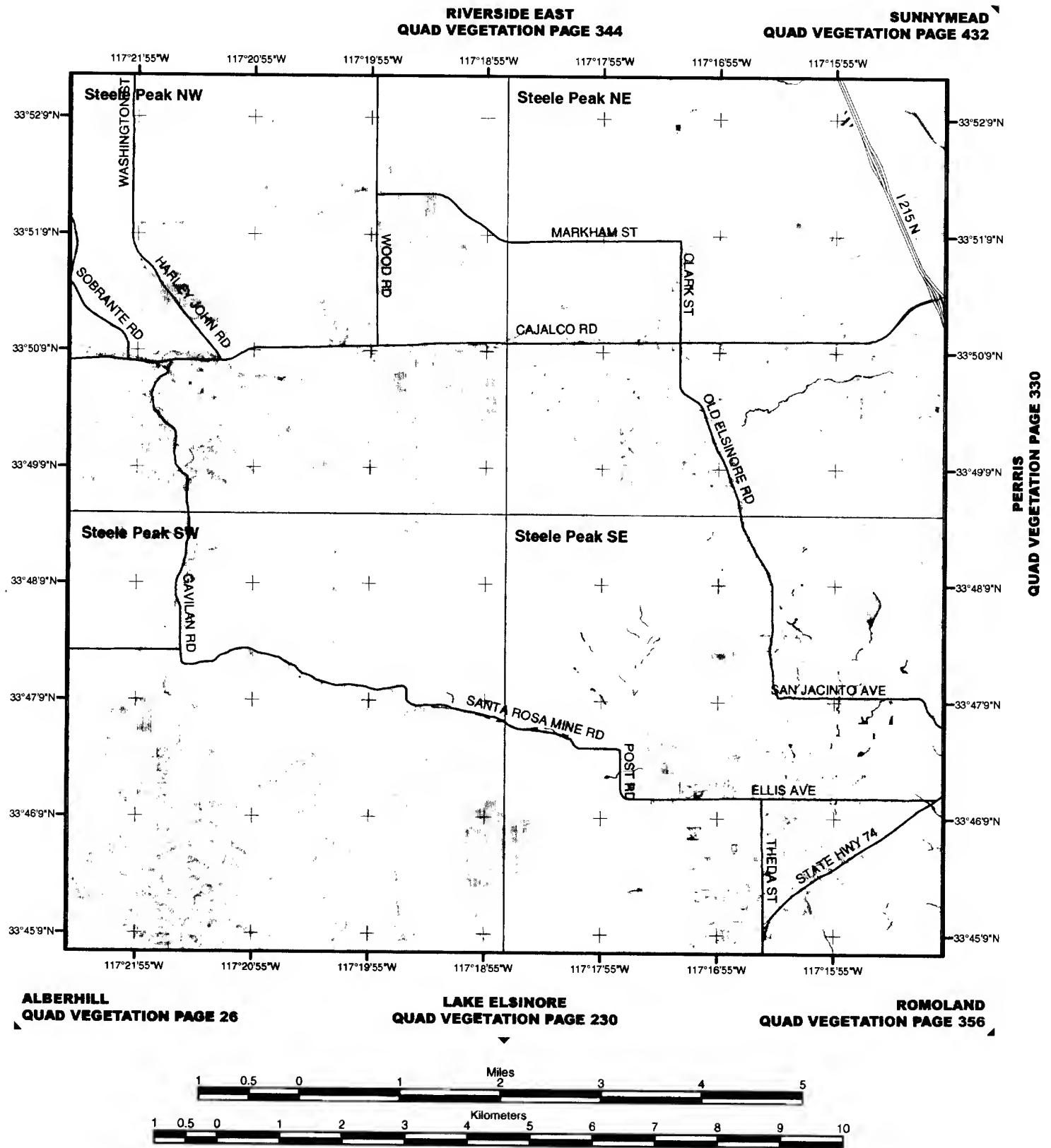


# Steele Peak South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



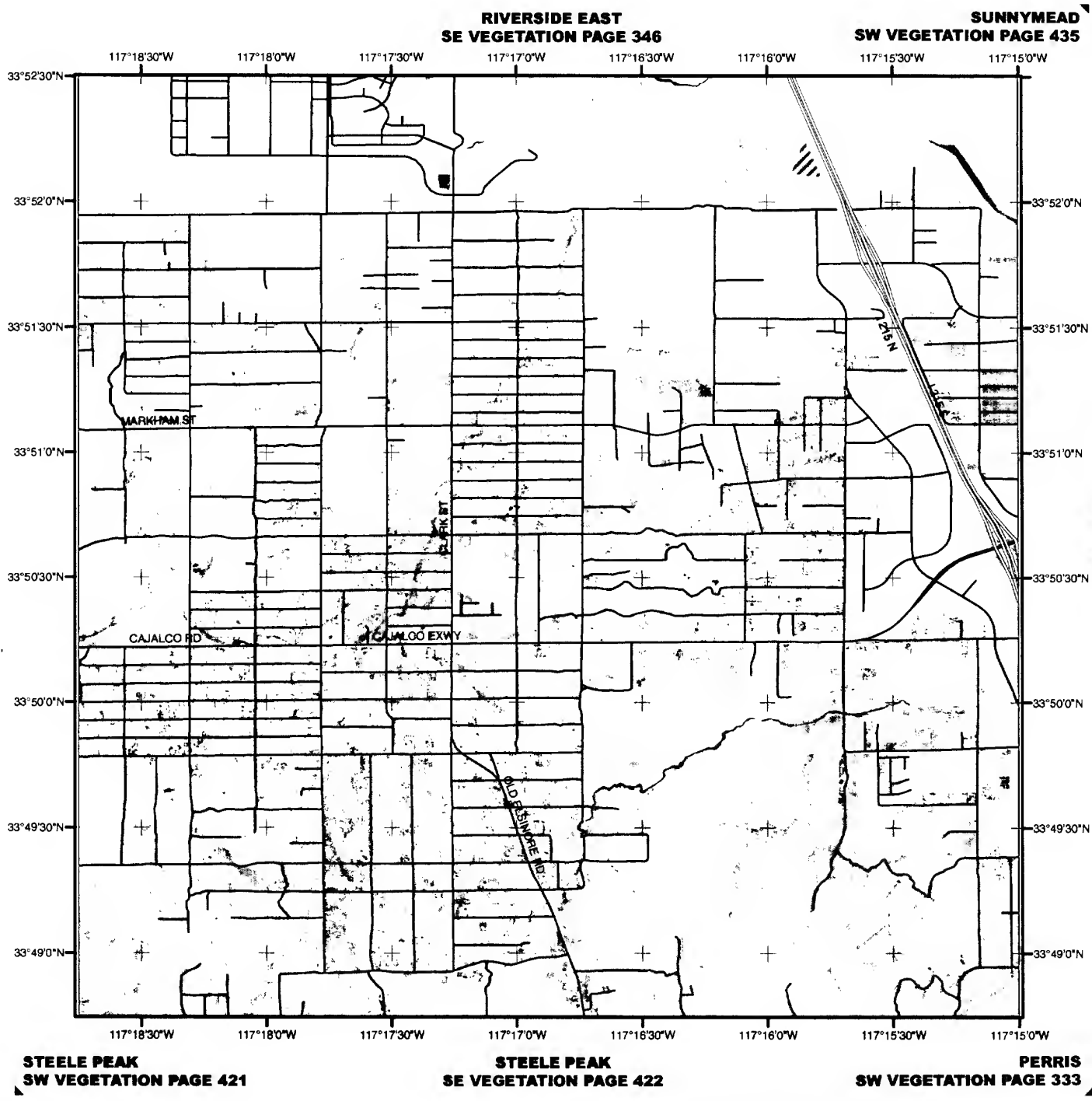
# Steele Peak Quadrangle

## Vegetation Species Association Units for Aquatic Resources

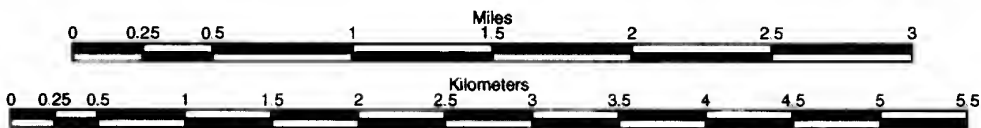




# Steele Peak North East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

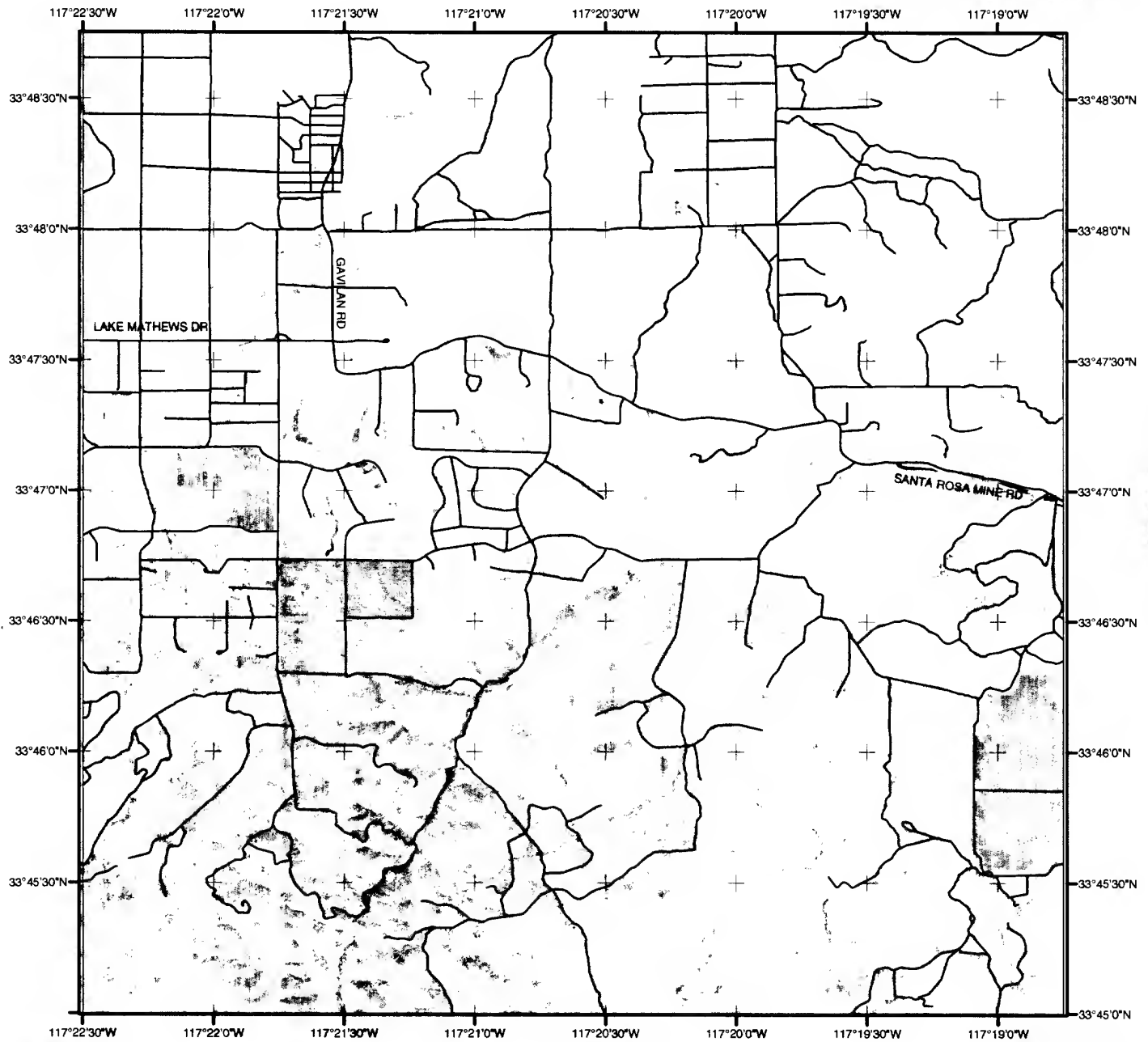


PERRIS  
NW VEGETATION PAGE 331



# Steele Peak South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

**STEELE PEAK  
NE VEGETATION PAGE 420**

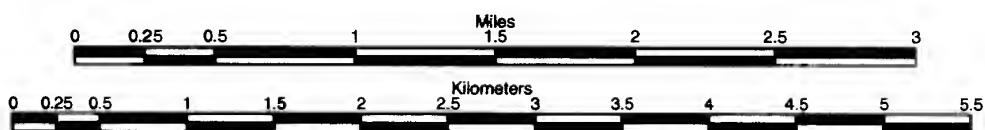


**STEELE PEAK  
SE VEGETATION PAGE 422**

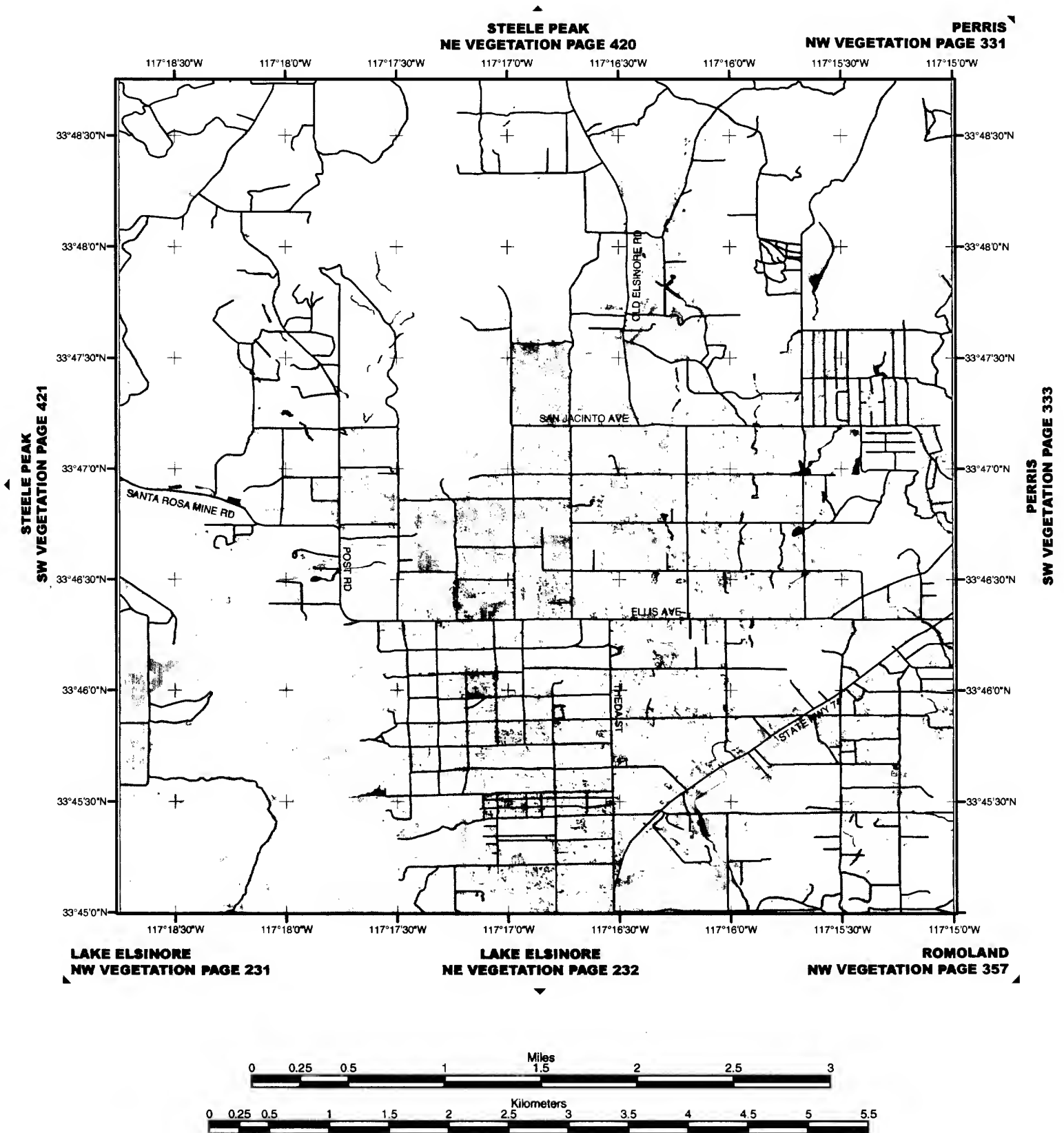
**ALBERHILL  
NE VEGETATION PAGE 28**

**LAKE ELSINORE  
NW VEGETATION PAGE 231**

**LAKE ELSINORE  
NE VEGETATION PAGE 232**

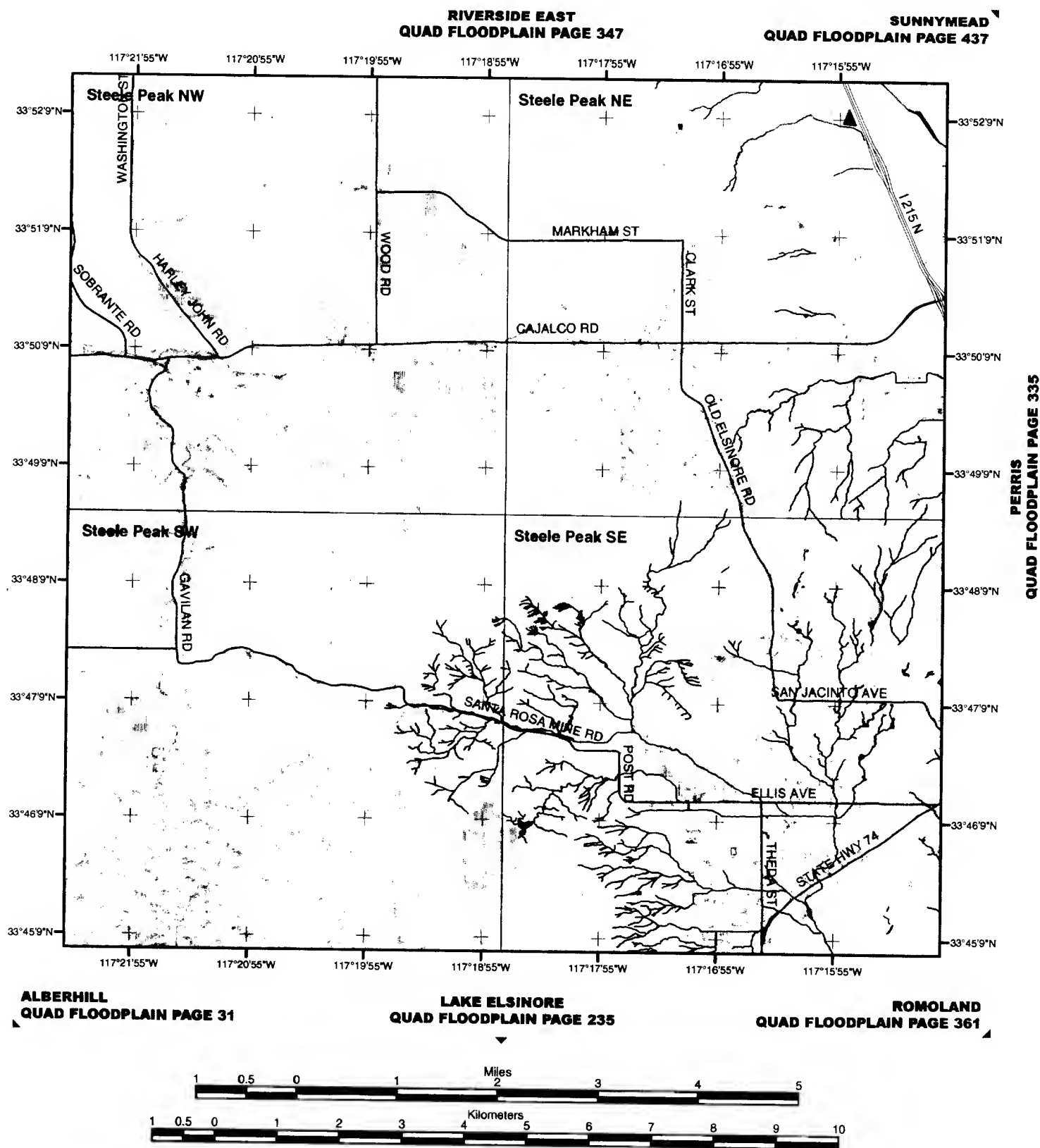


# Steele Peak South East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

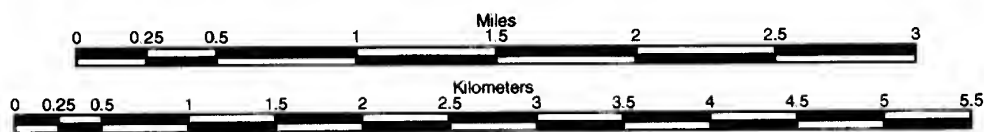
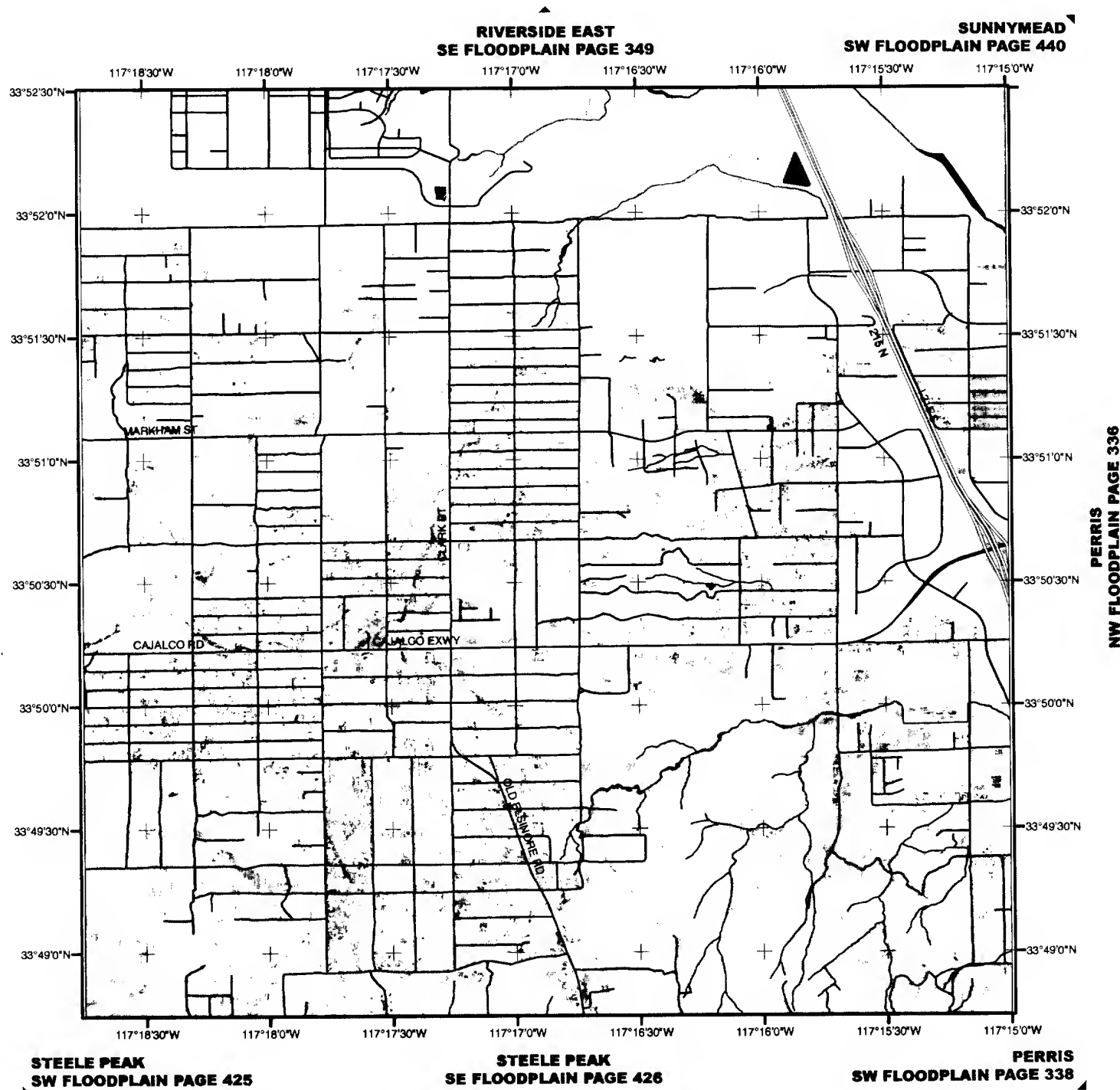


# Steele Peak Quadrangle

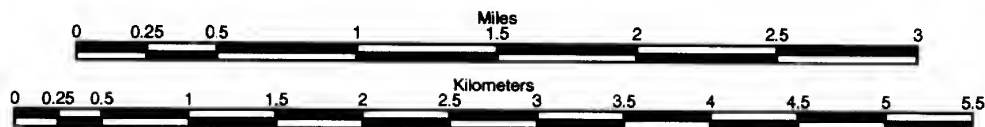
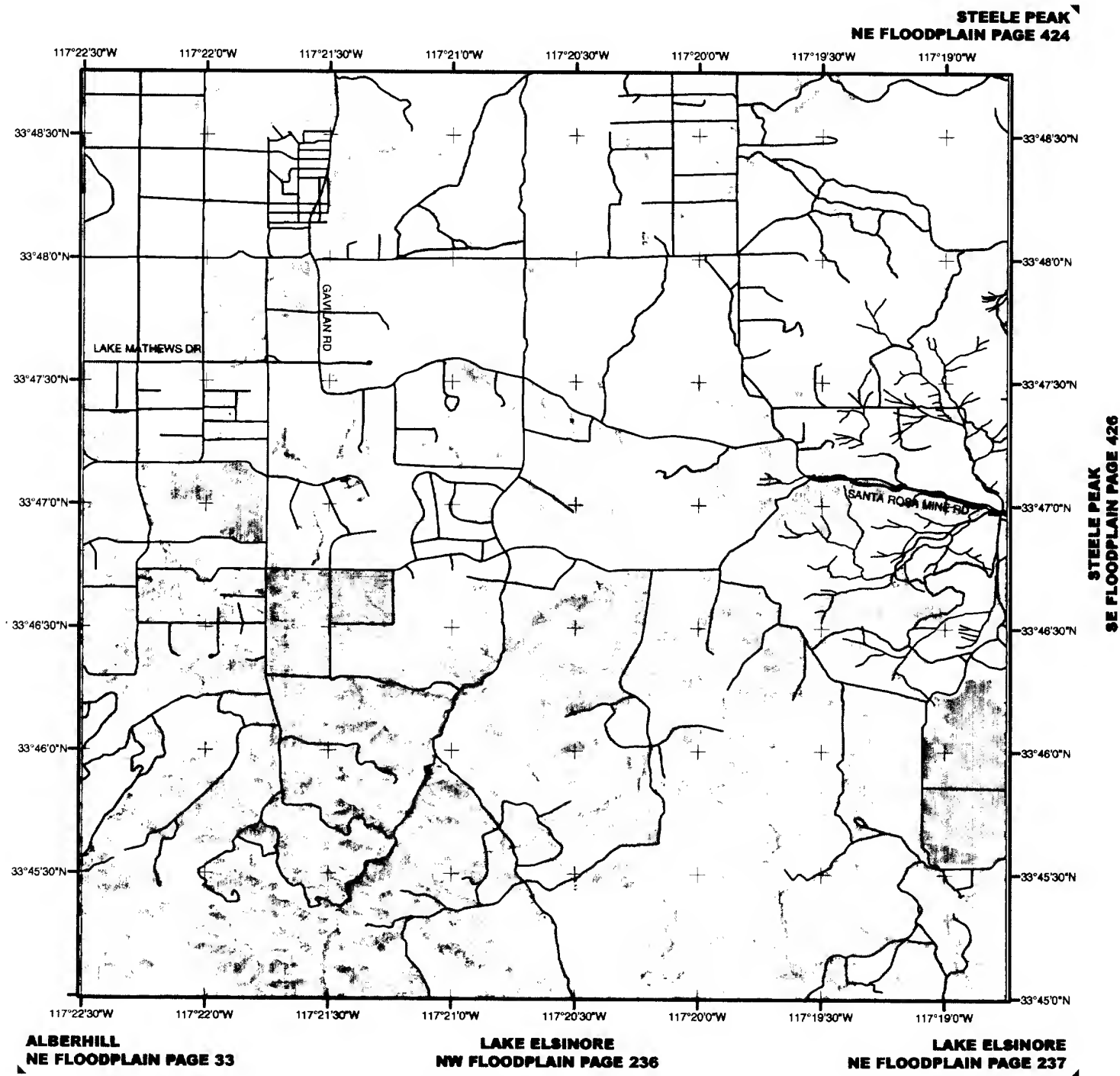
## Hydrogeomorphic Floodplain Units for Aquatic Resources



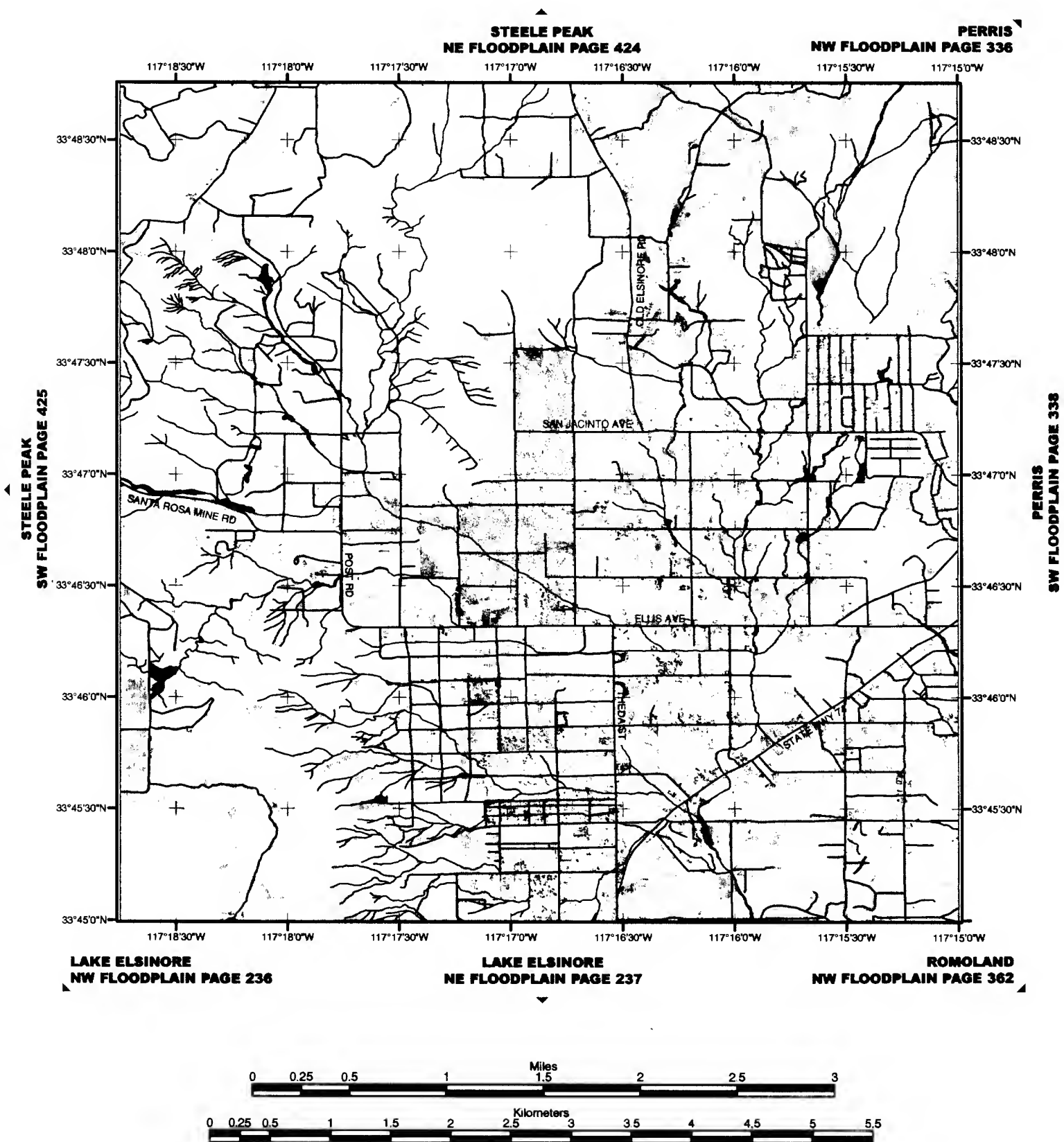
# Steele Peak North East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



# Steele Peak South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

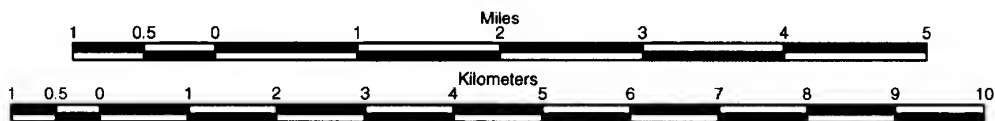
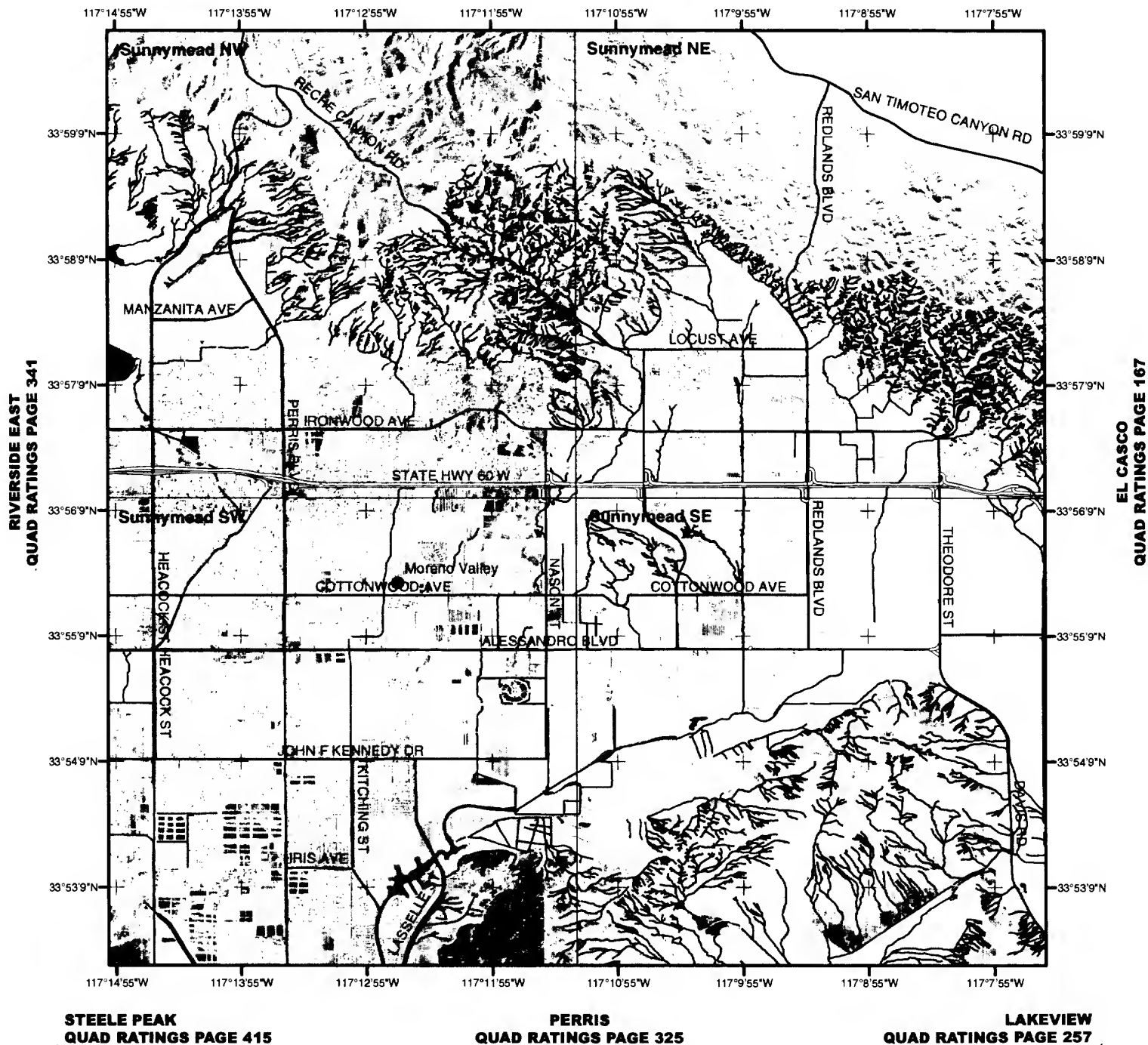


# Steele Peak South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



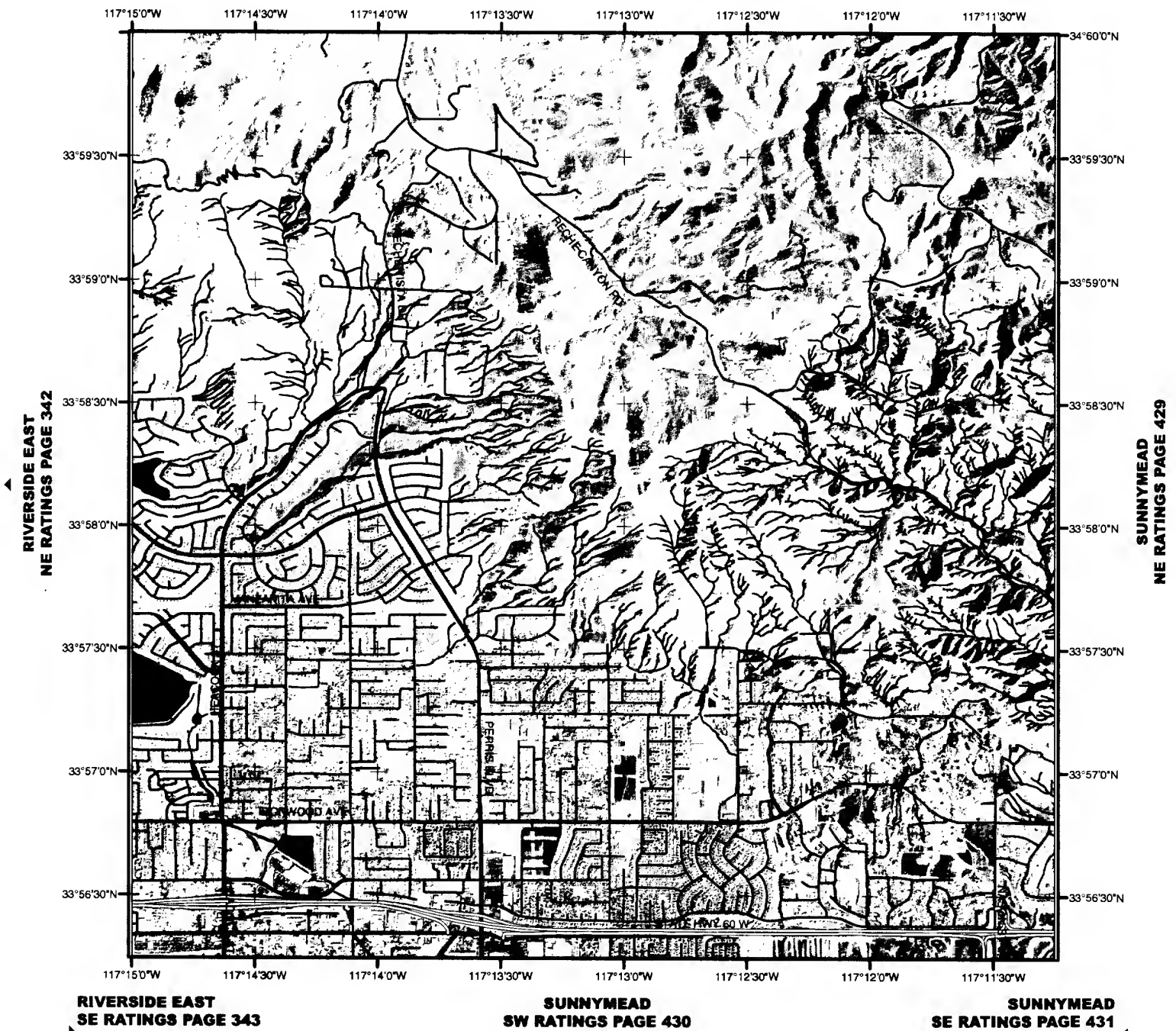
# Sunnymead Quadrangle

## Regulatory Probability Ratings for Aquatic Resources

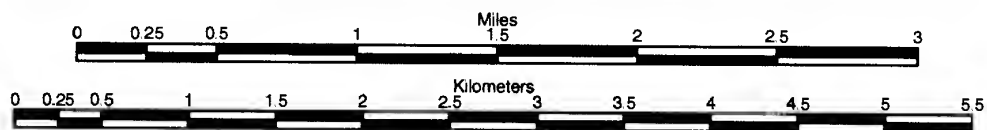
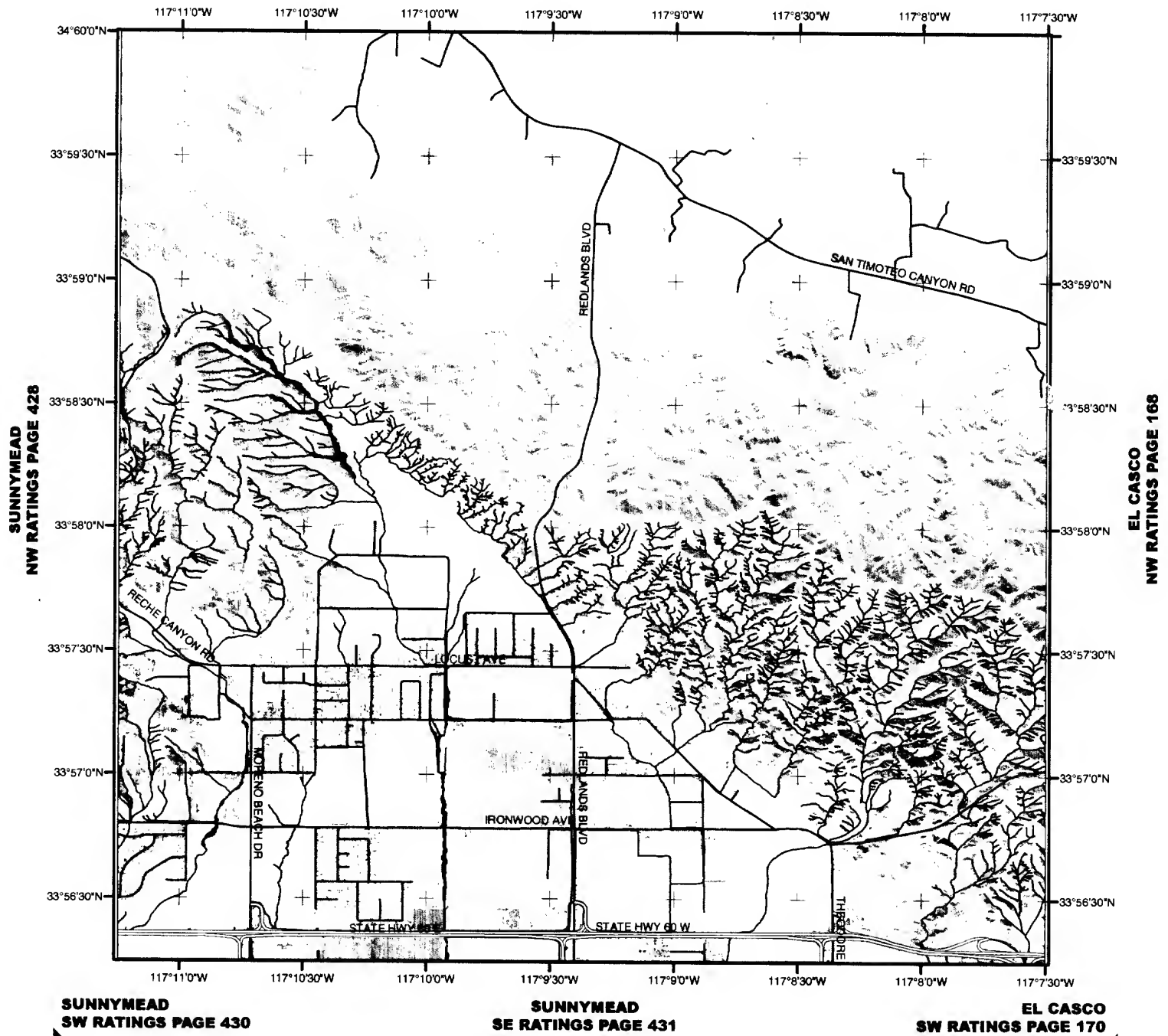




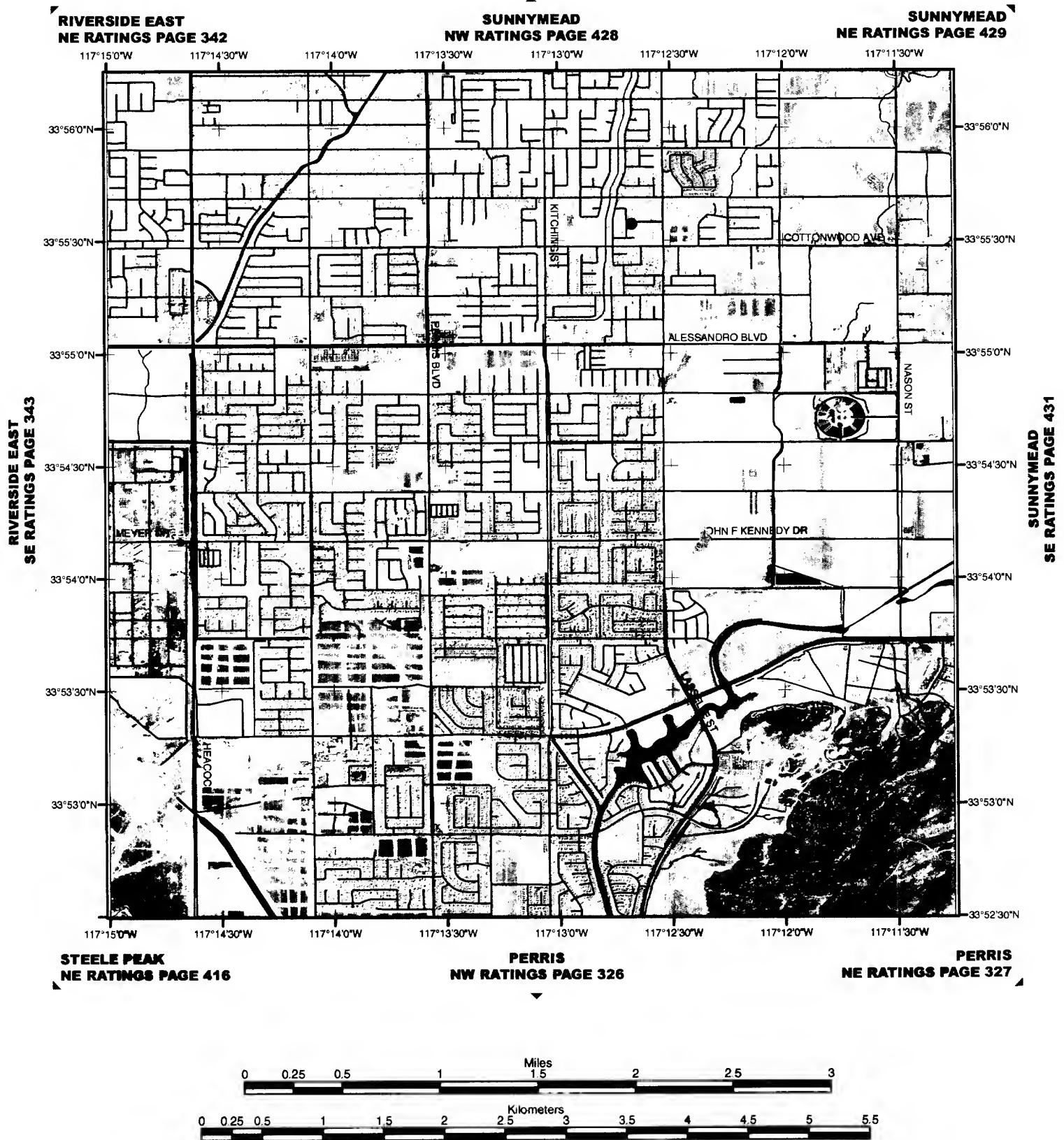
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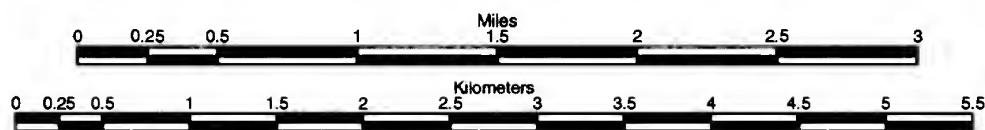
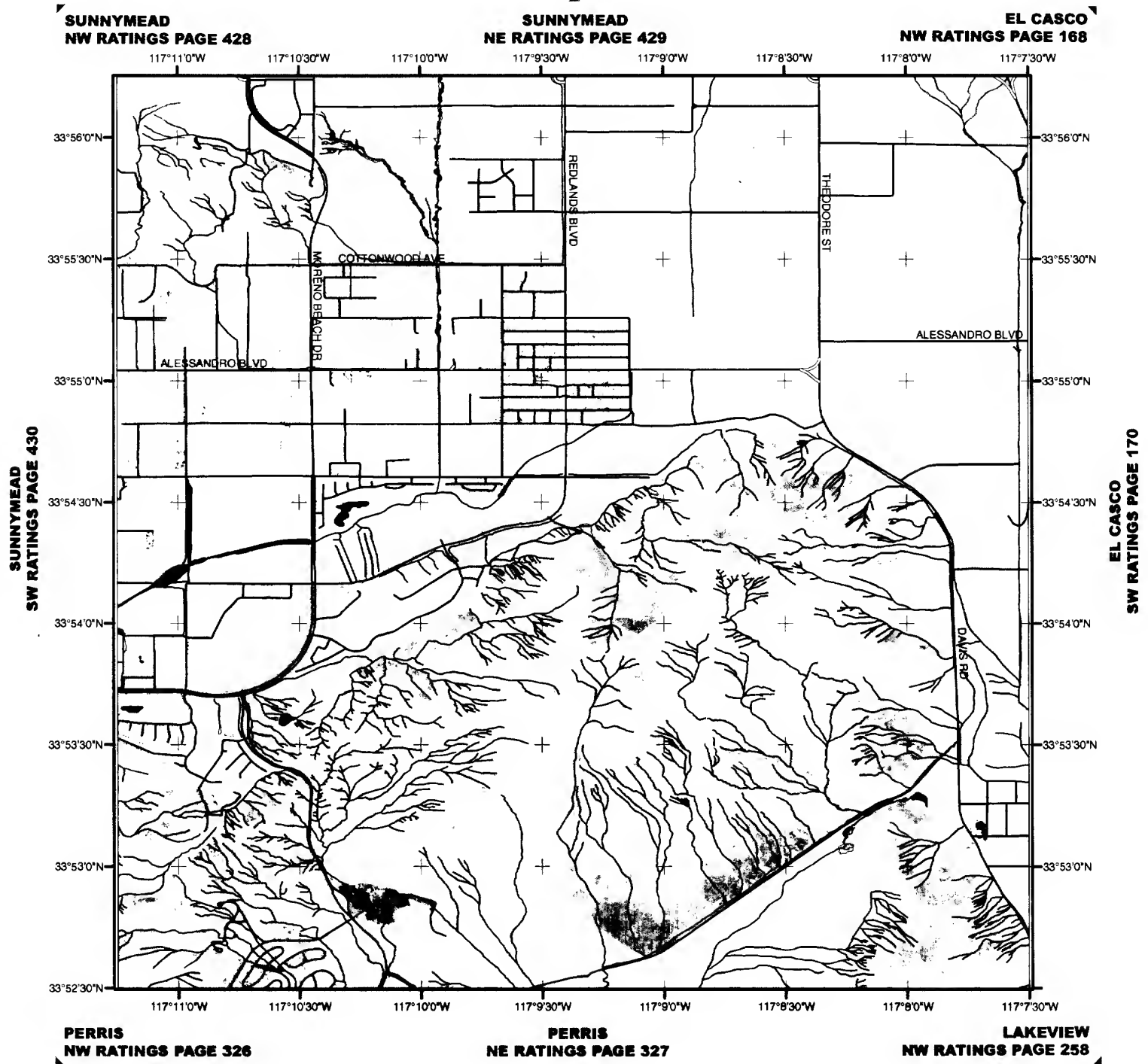
# Sunnymead North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



# Sunnymead South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

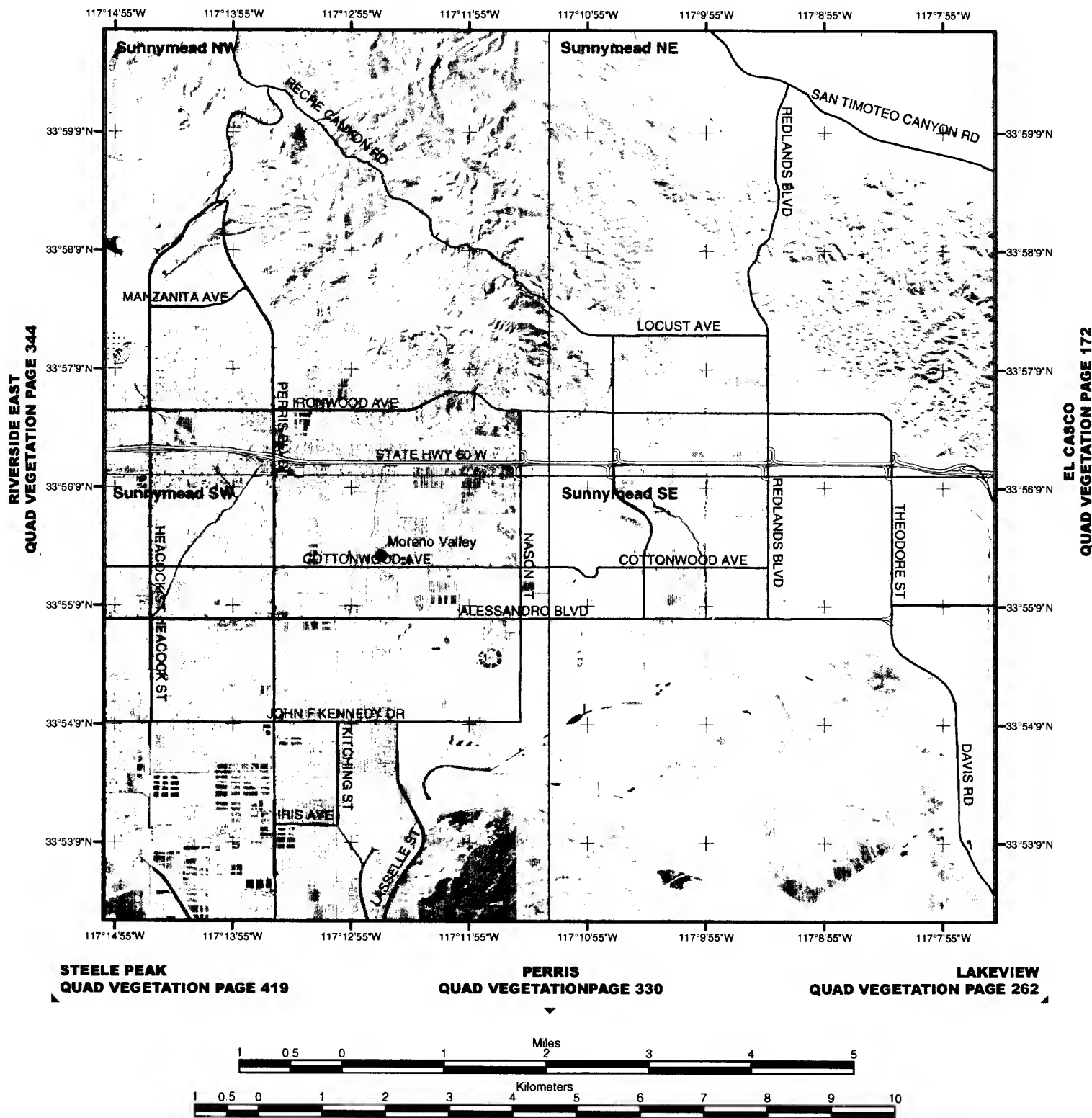


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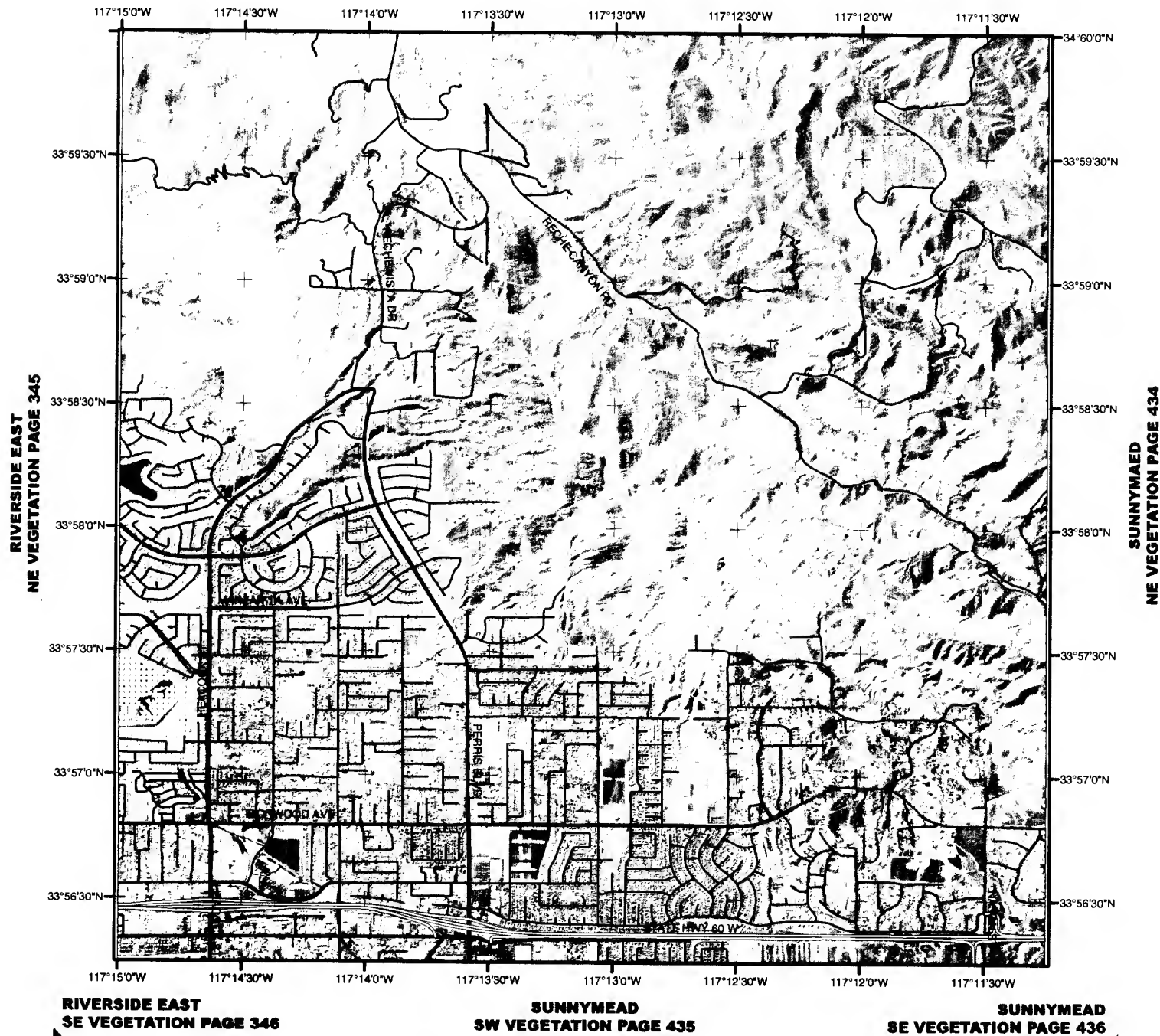


# Sunnymead Quadrangle

## Vegetation Species Association Units for Aquatic Resources

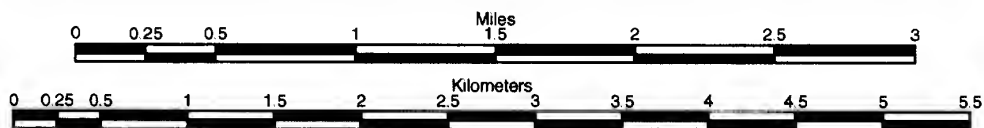
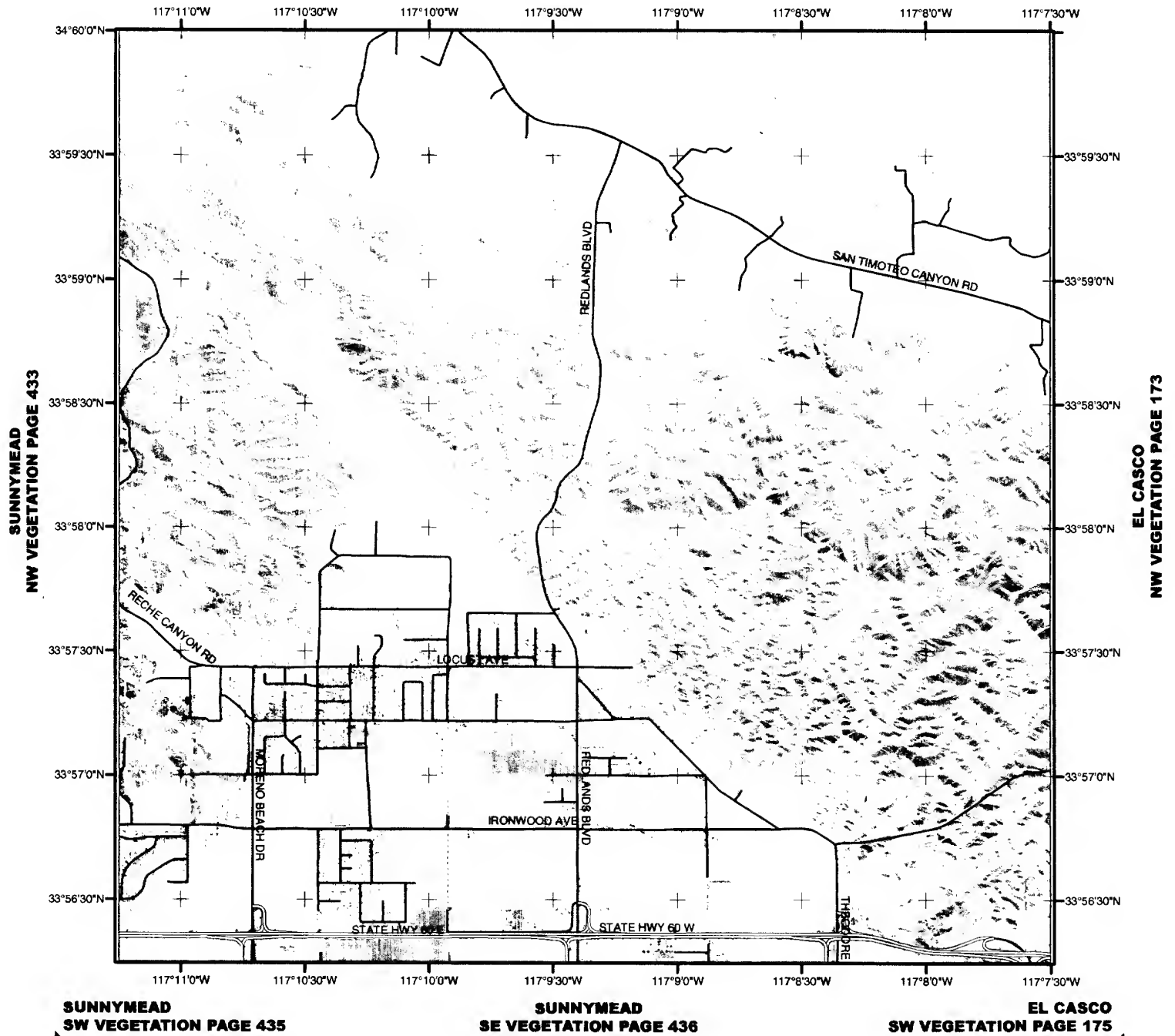


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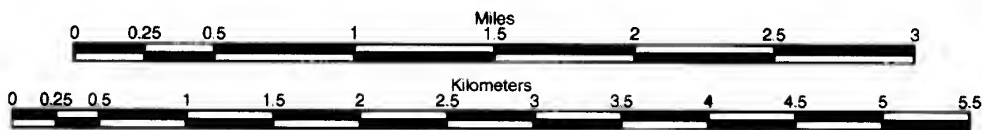
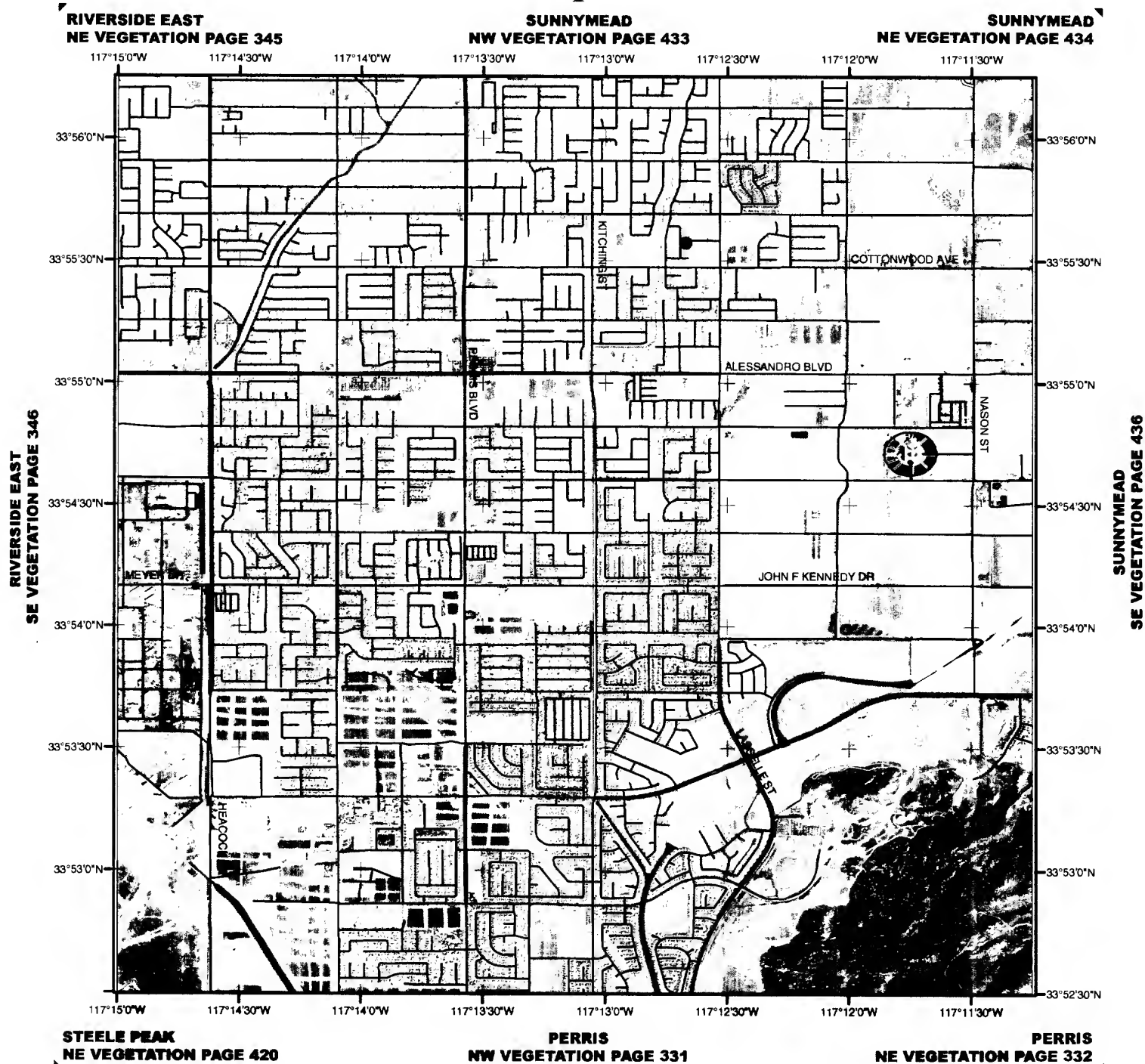




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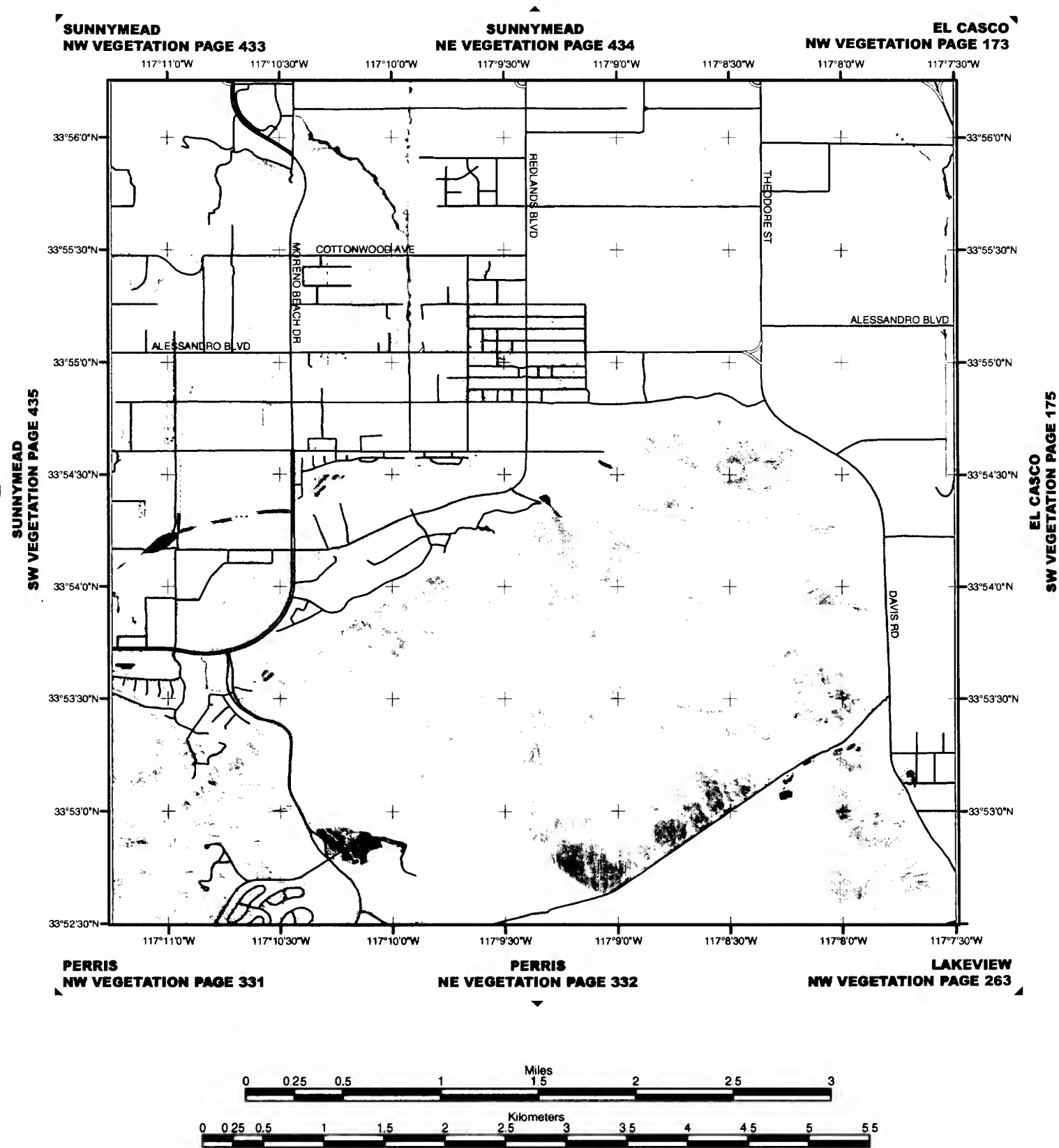


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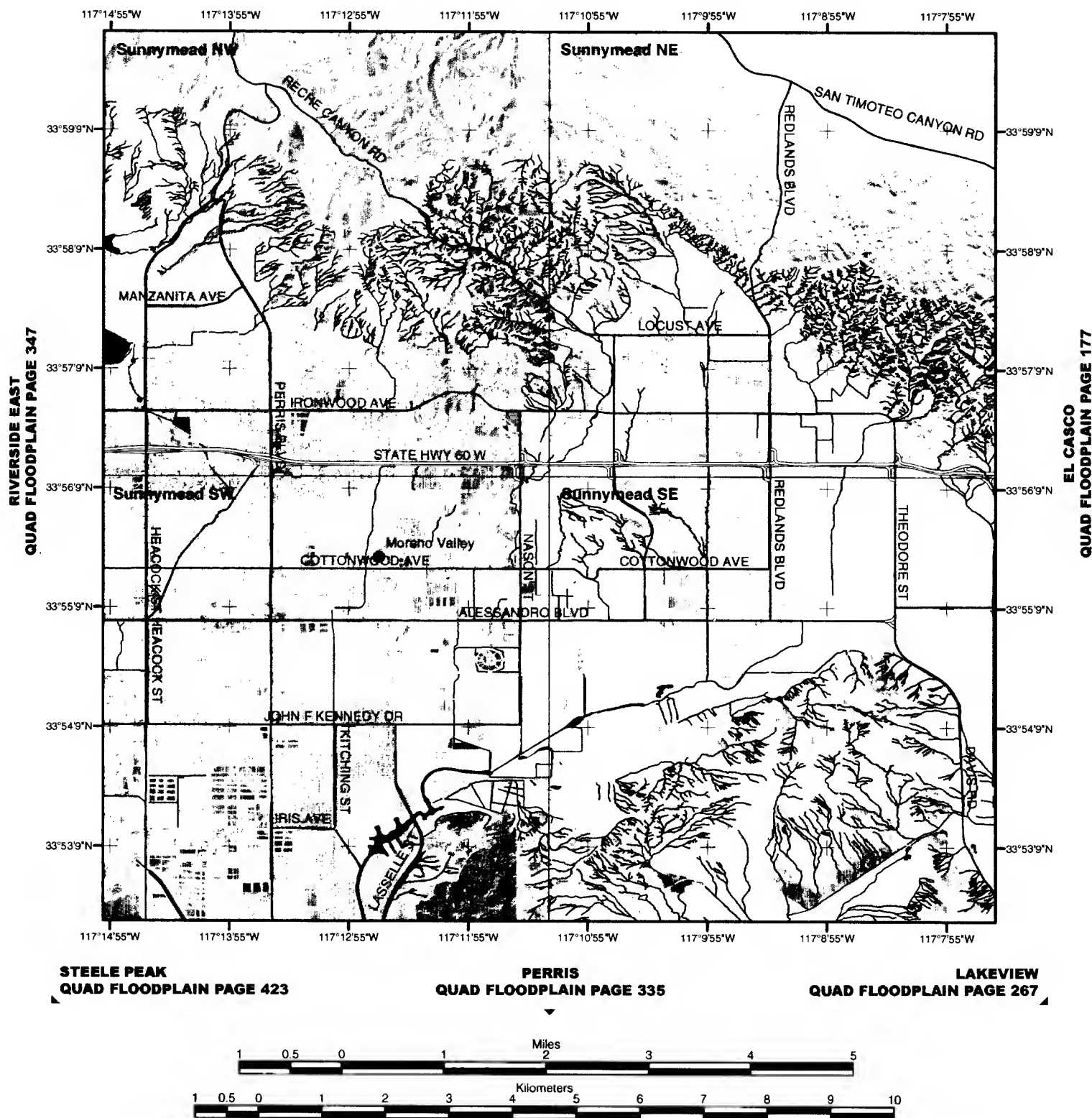


# Sunnymead South East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

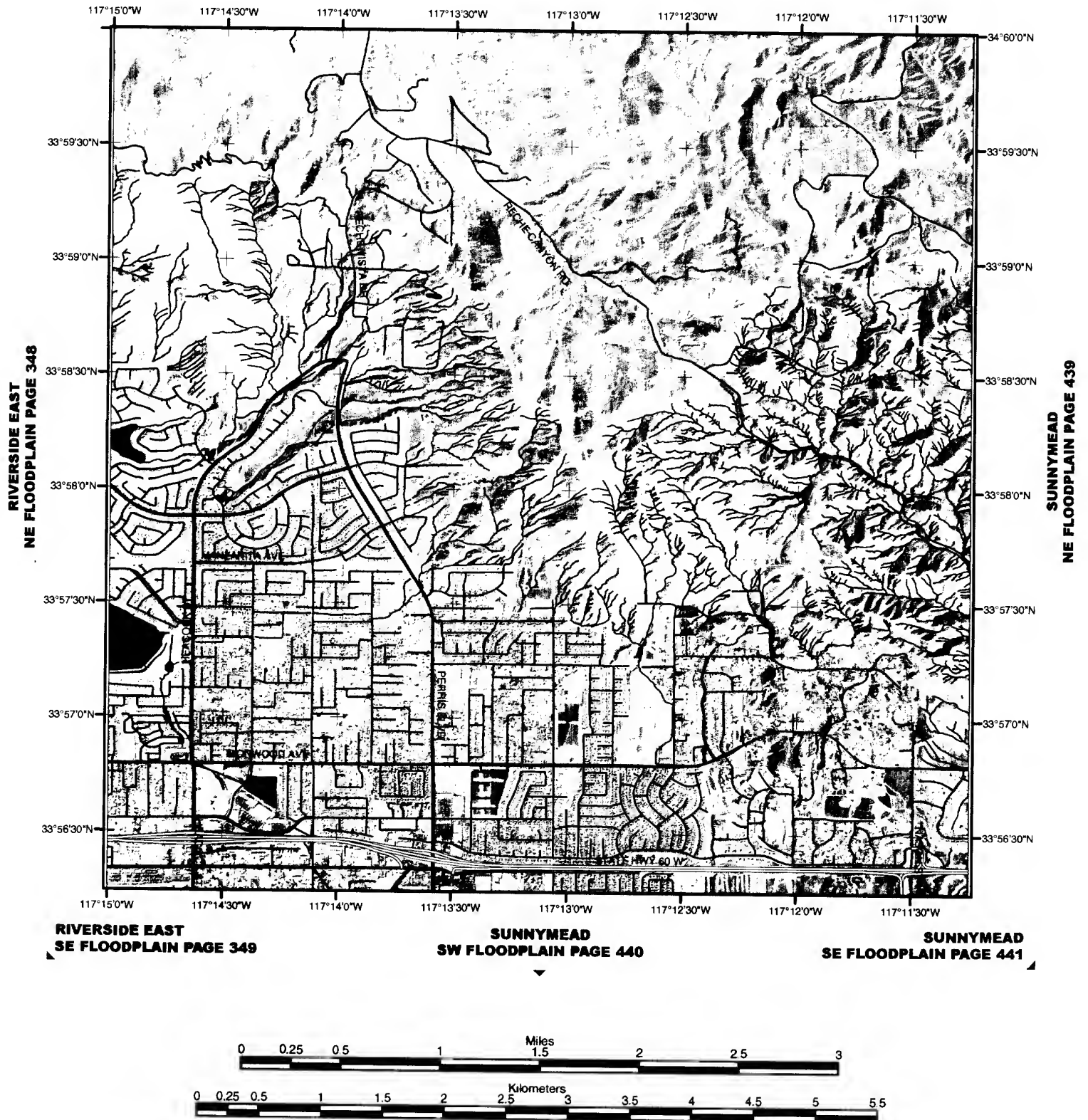


# Sunnymead Quadrangle

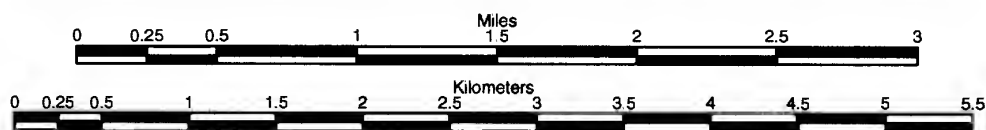
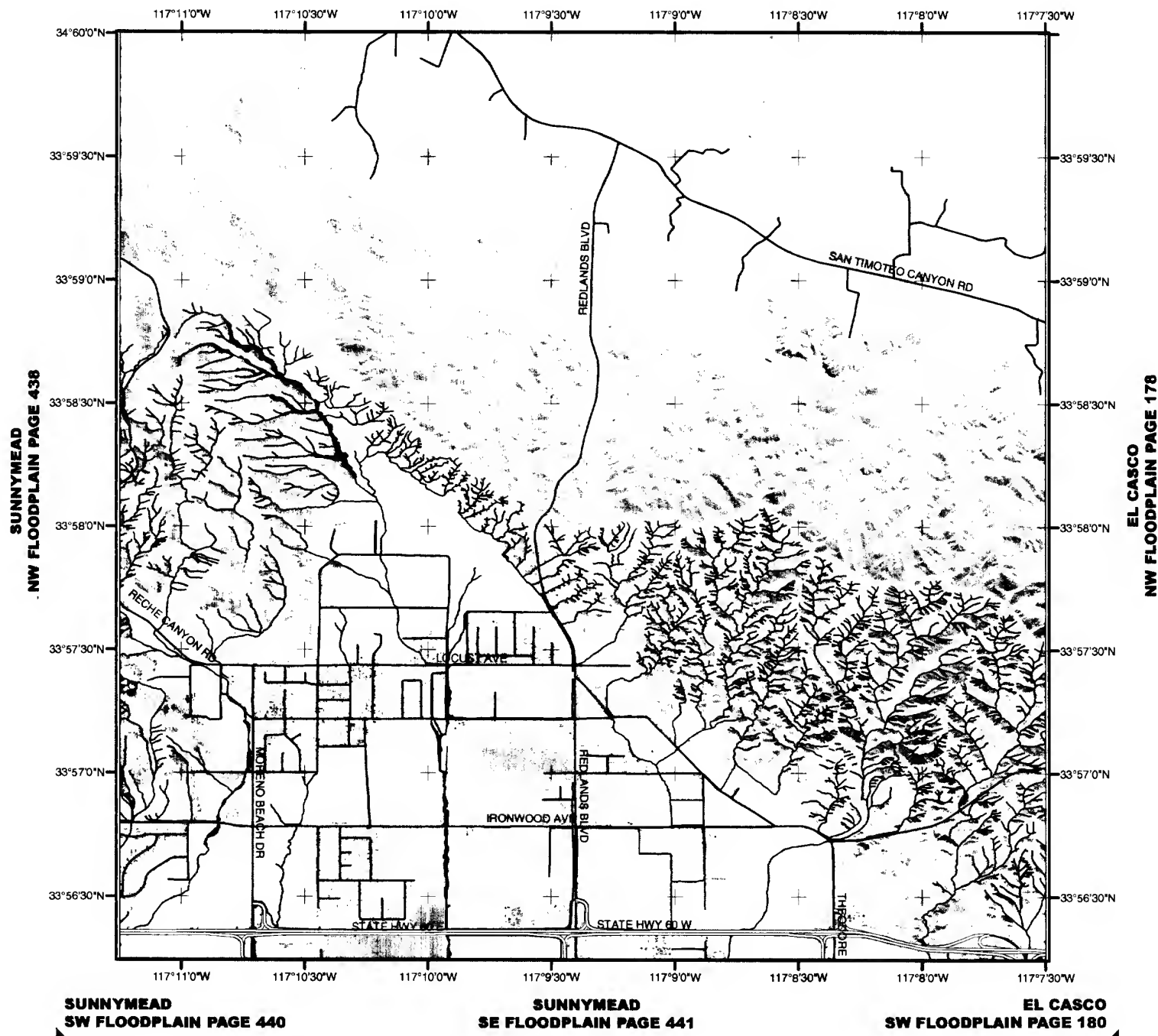
## Hydrogeomorphic Floodplain Units for Aquatic Resources



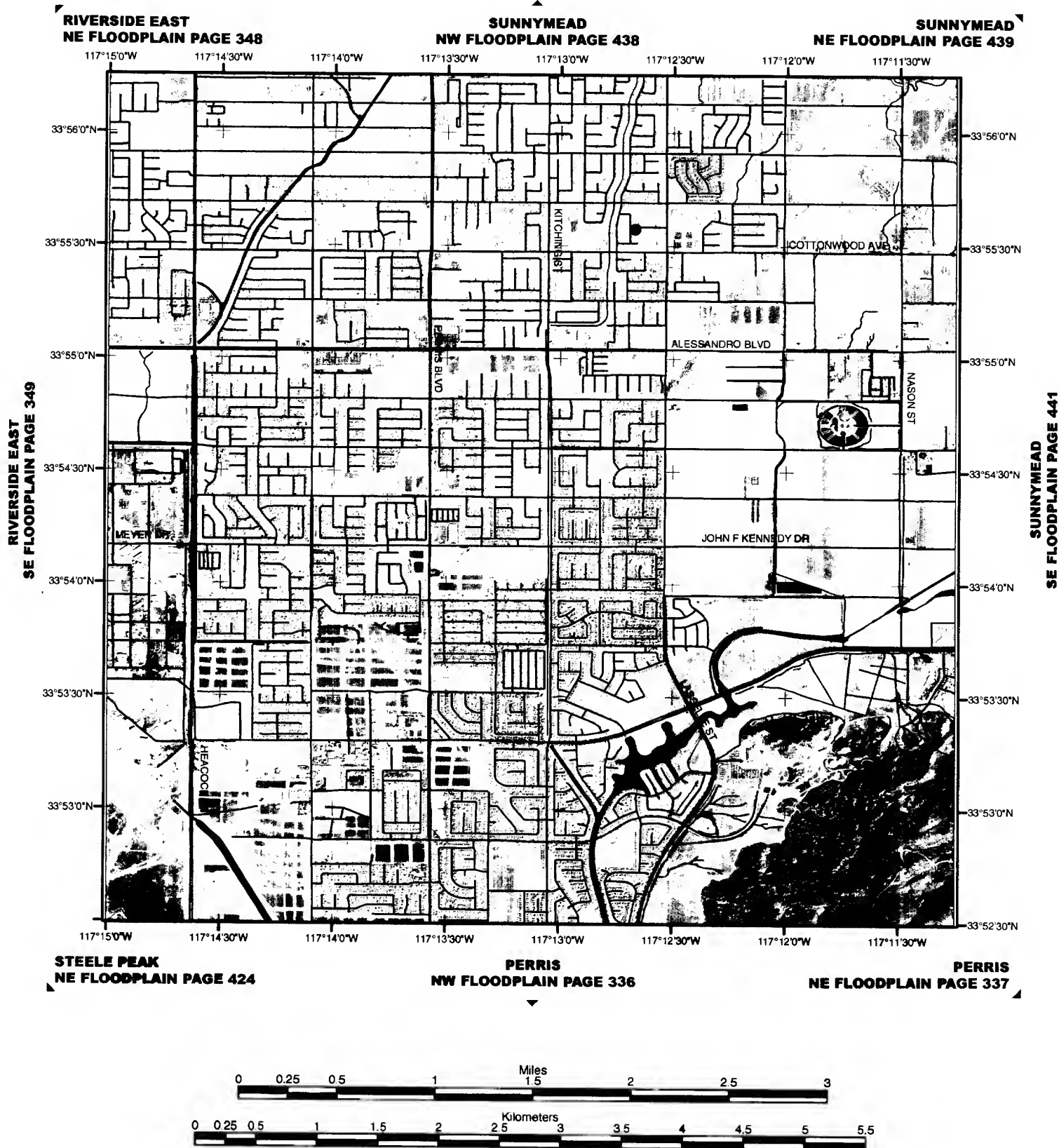
# Sunnymead North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



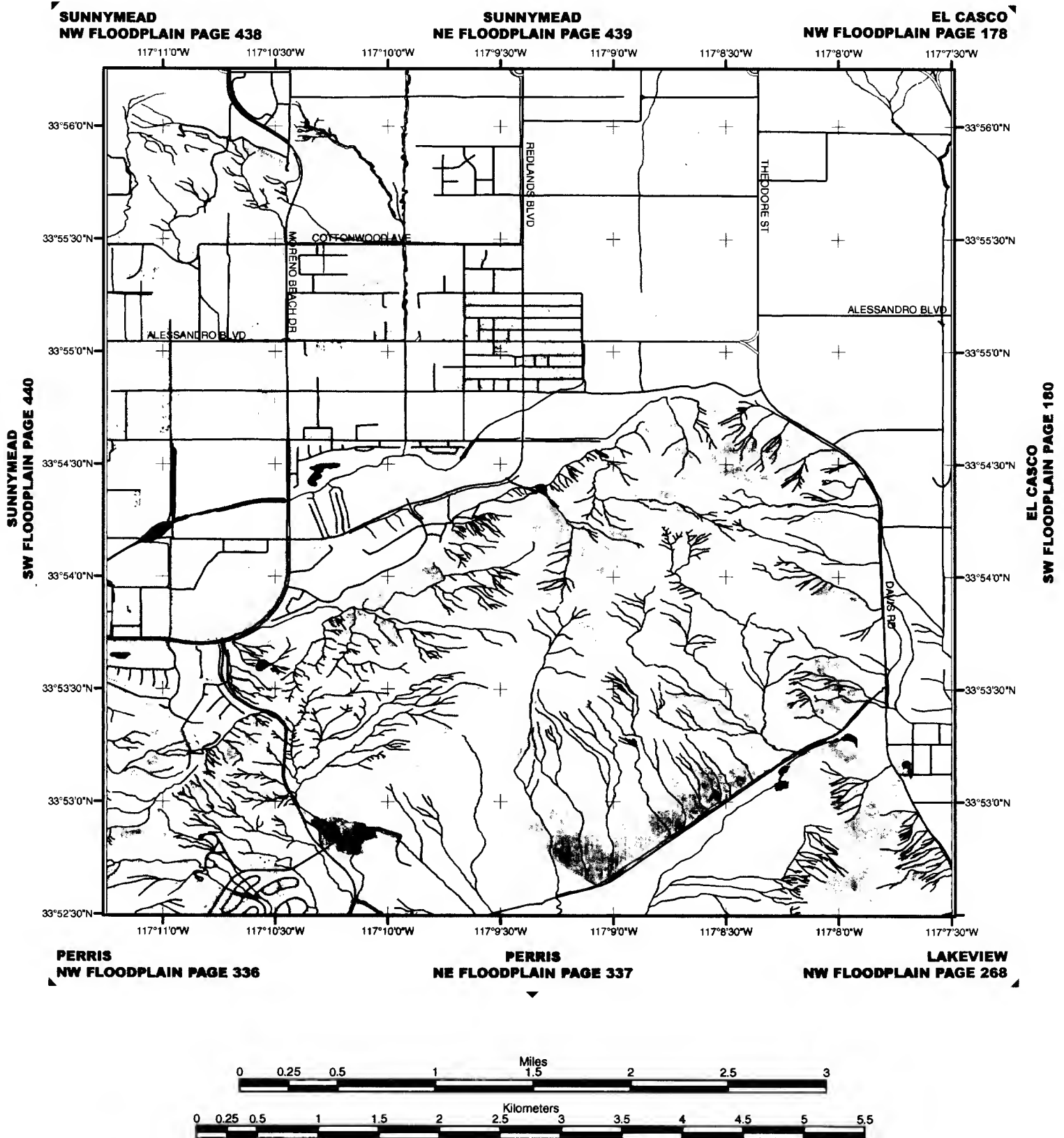
# Sunnymead North East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



# Sunnymead South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



# Sunnymead South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

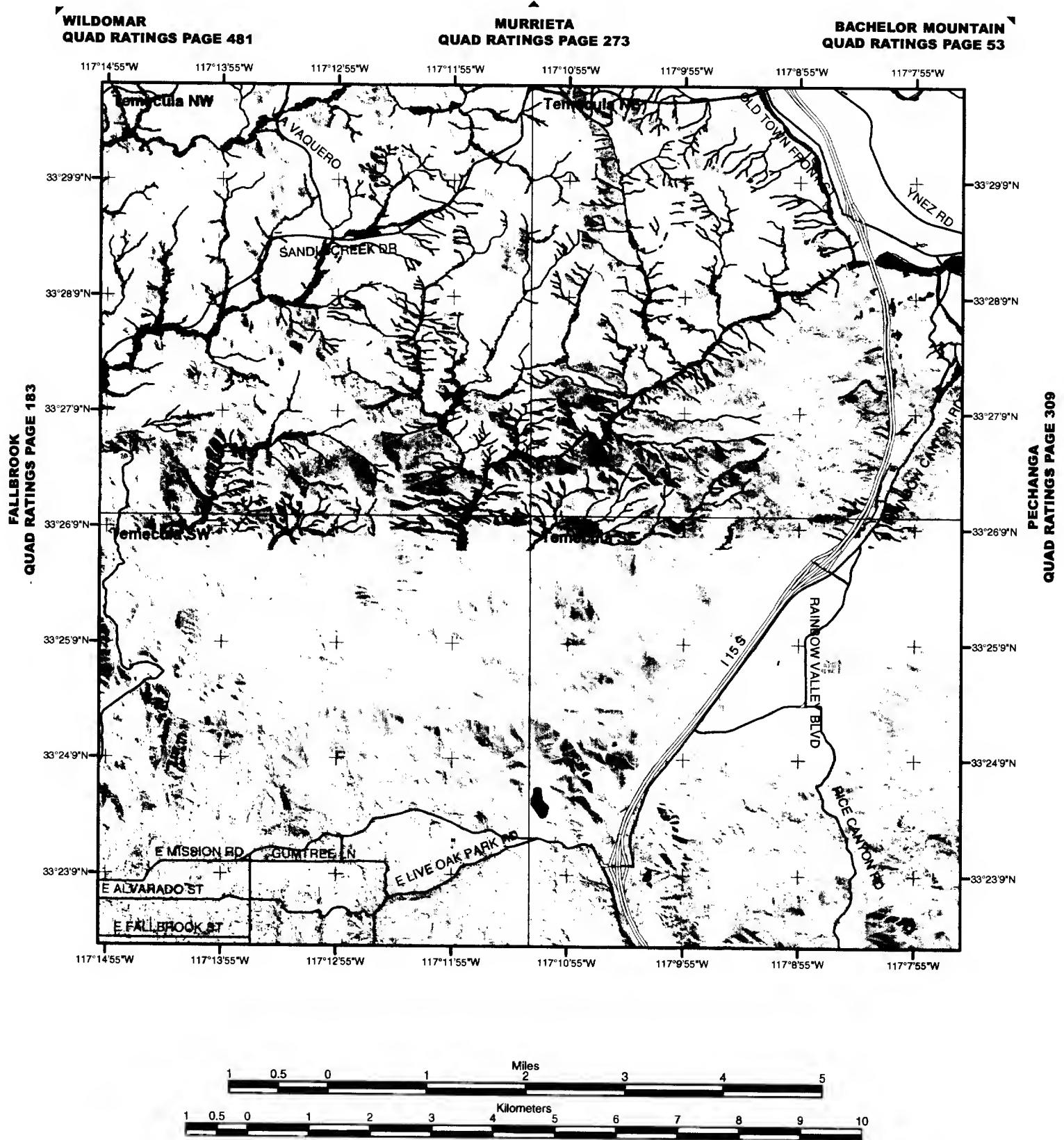






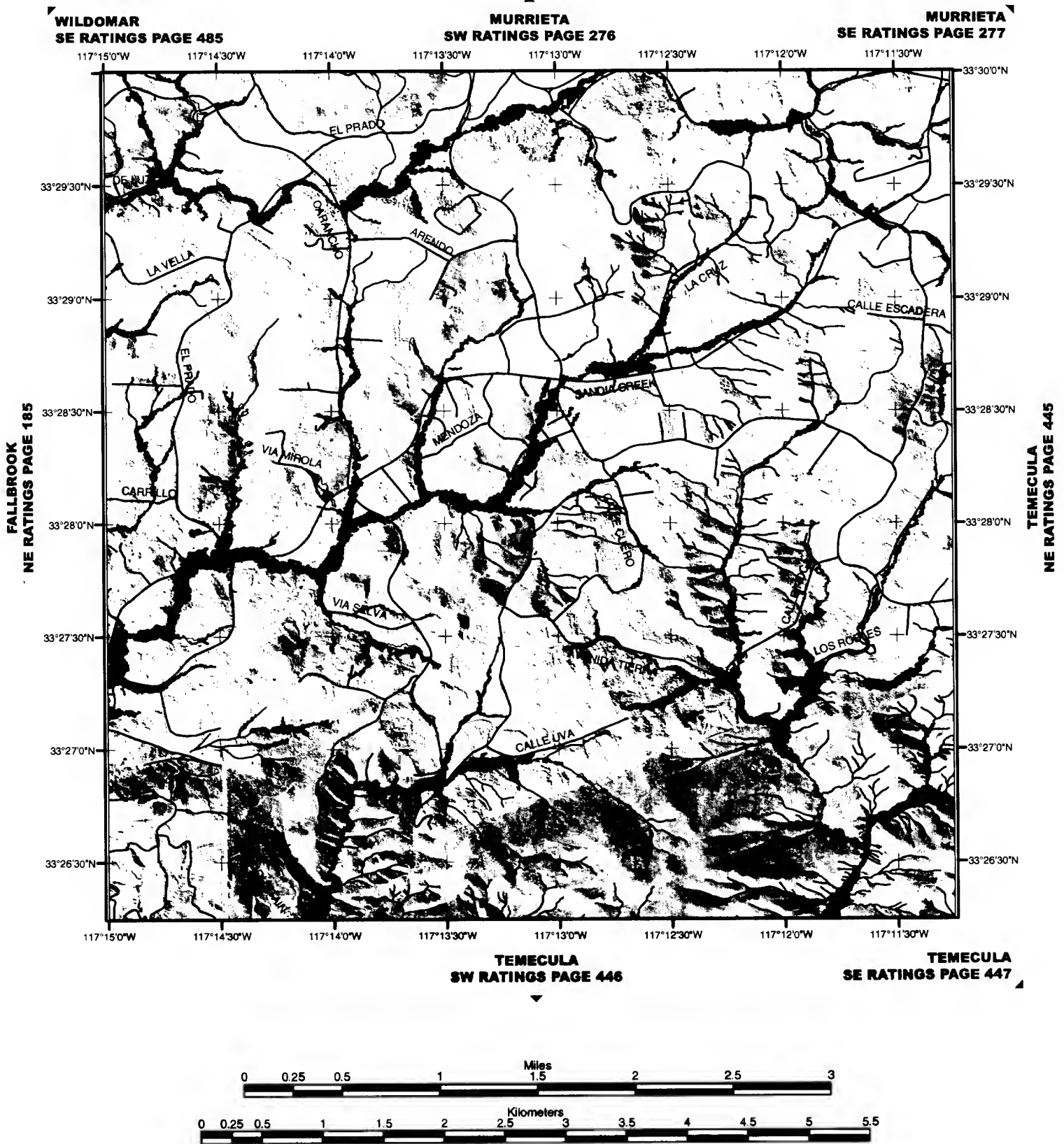
# Temecula Quadrangle

## Regulatory Probability Ratings for Aquatic Resources

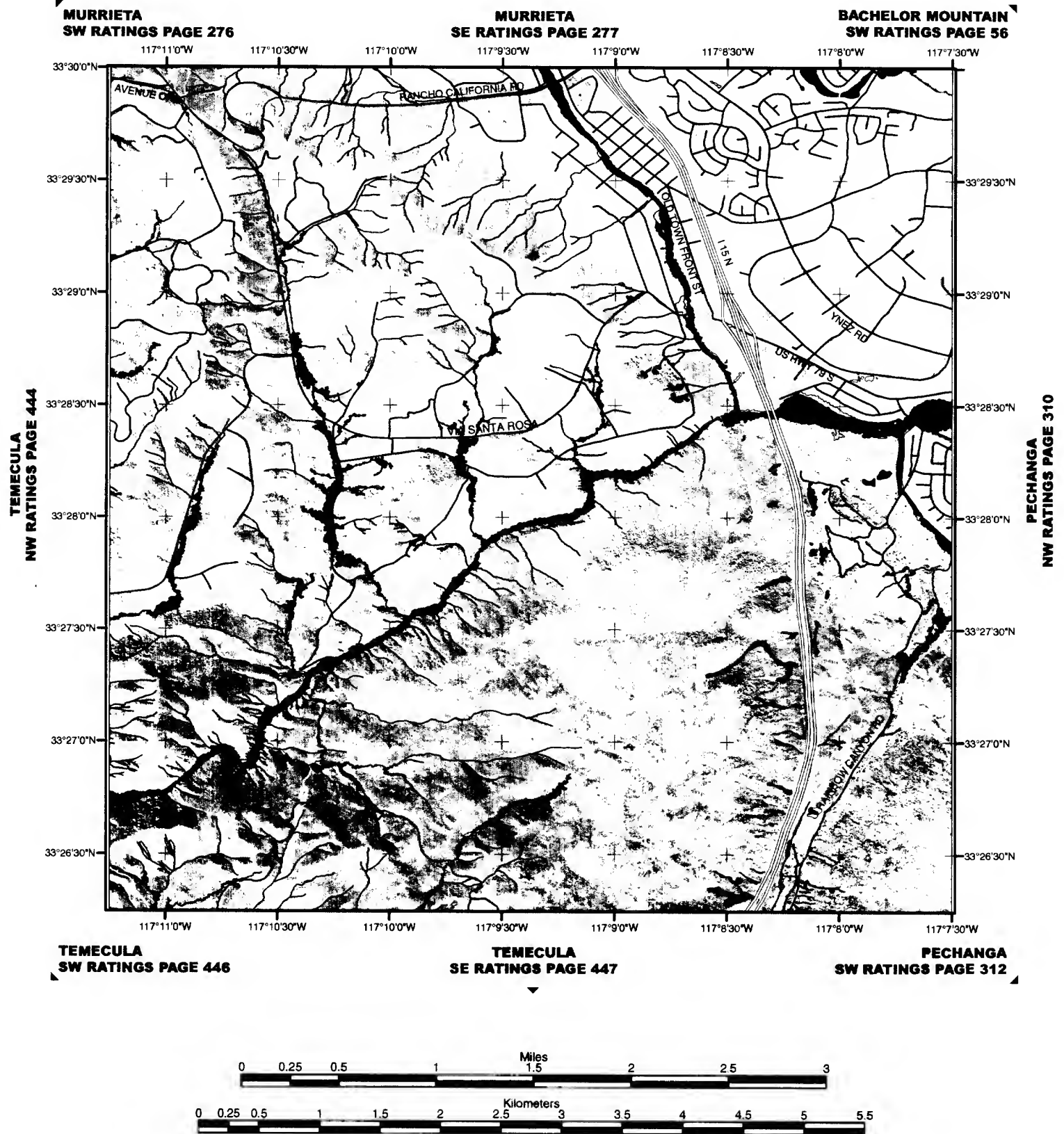




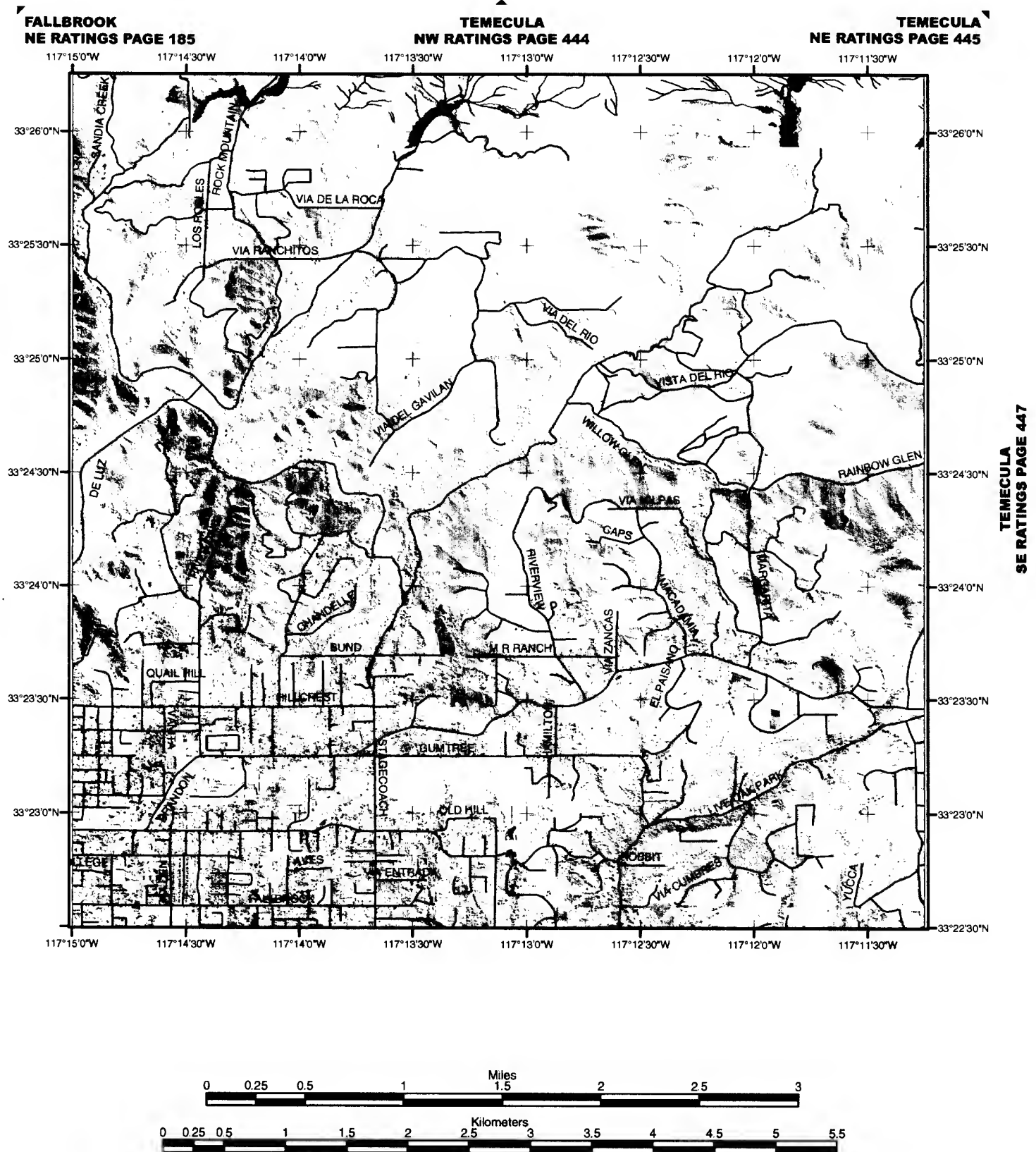
# Temecula North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



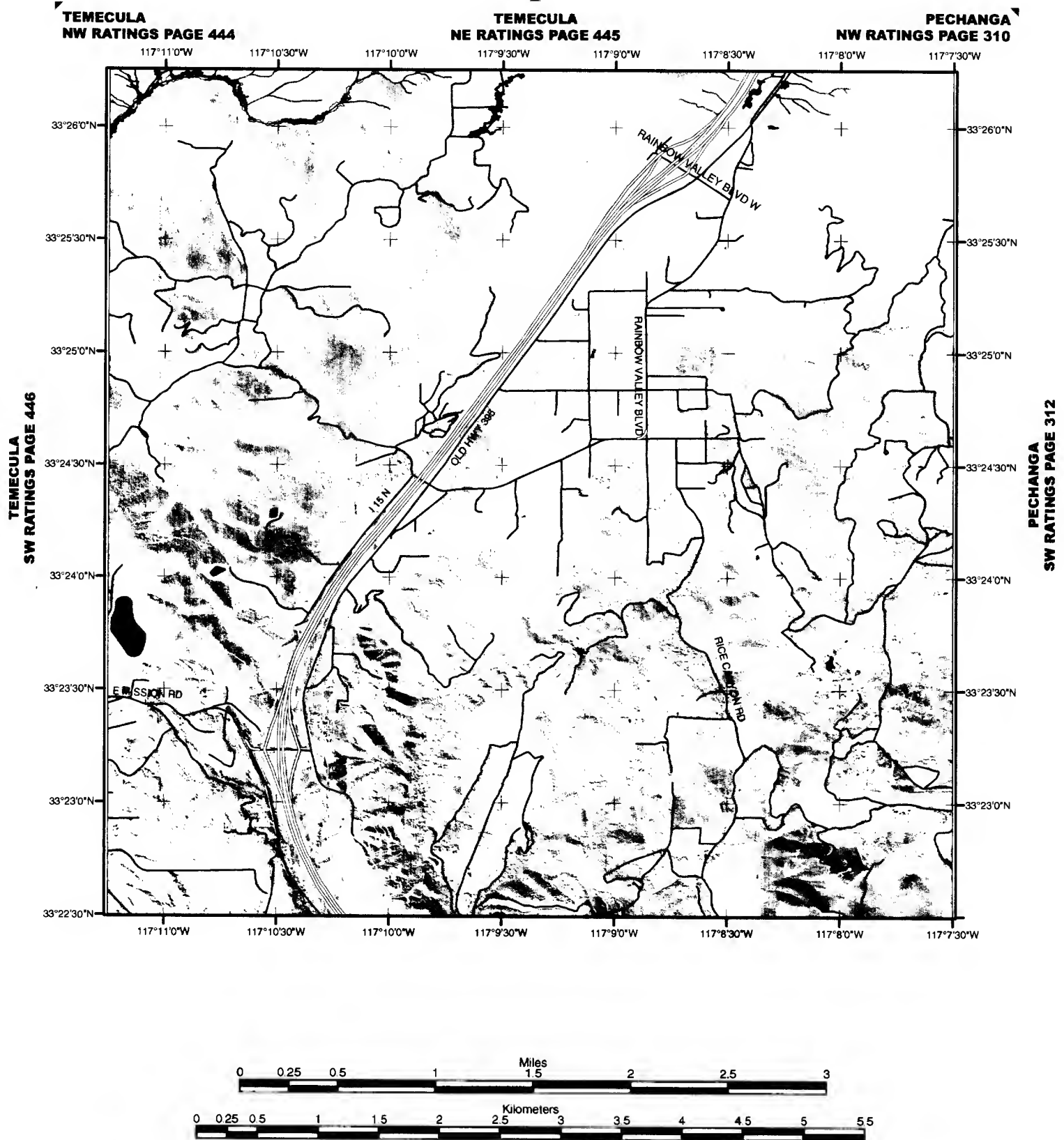
# Temecula North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



# **Temecula South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources**

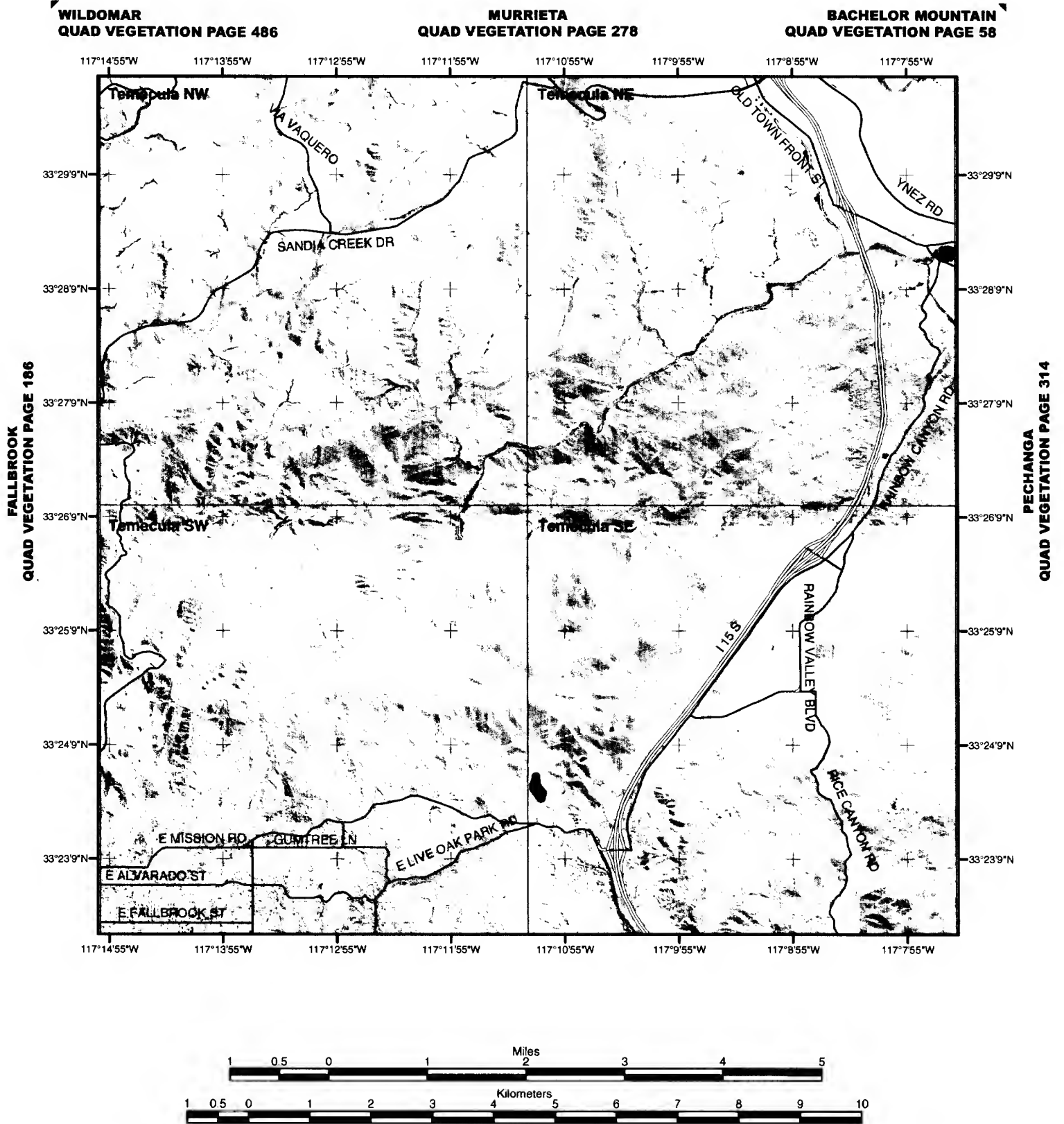


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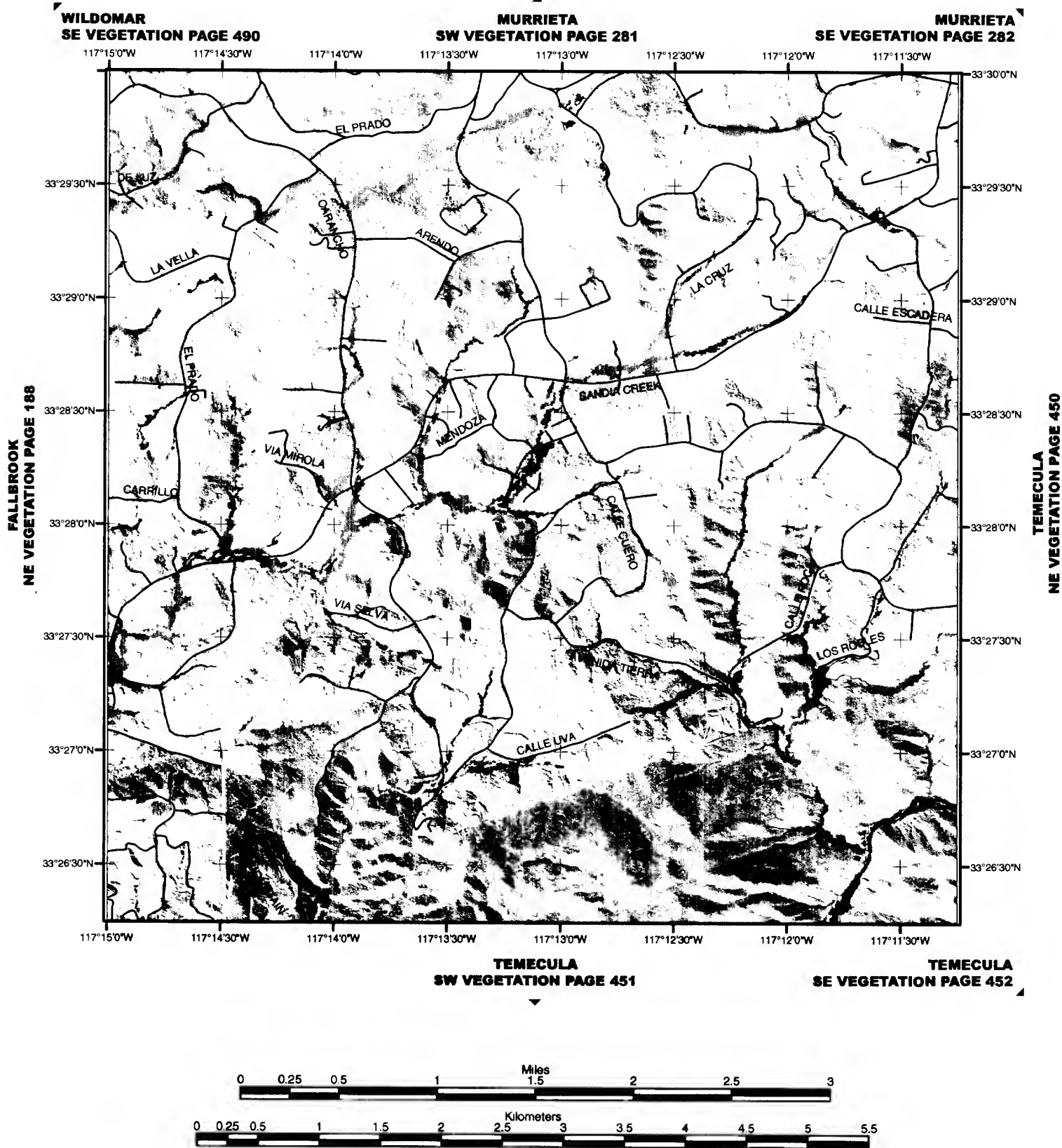
# Temecula Quadrangle

## Vegetation Species Association Units for Aquatic Resources

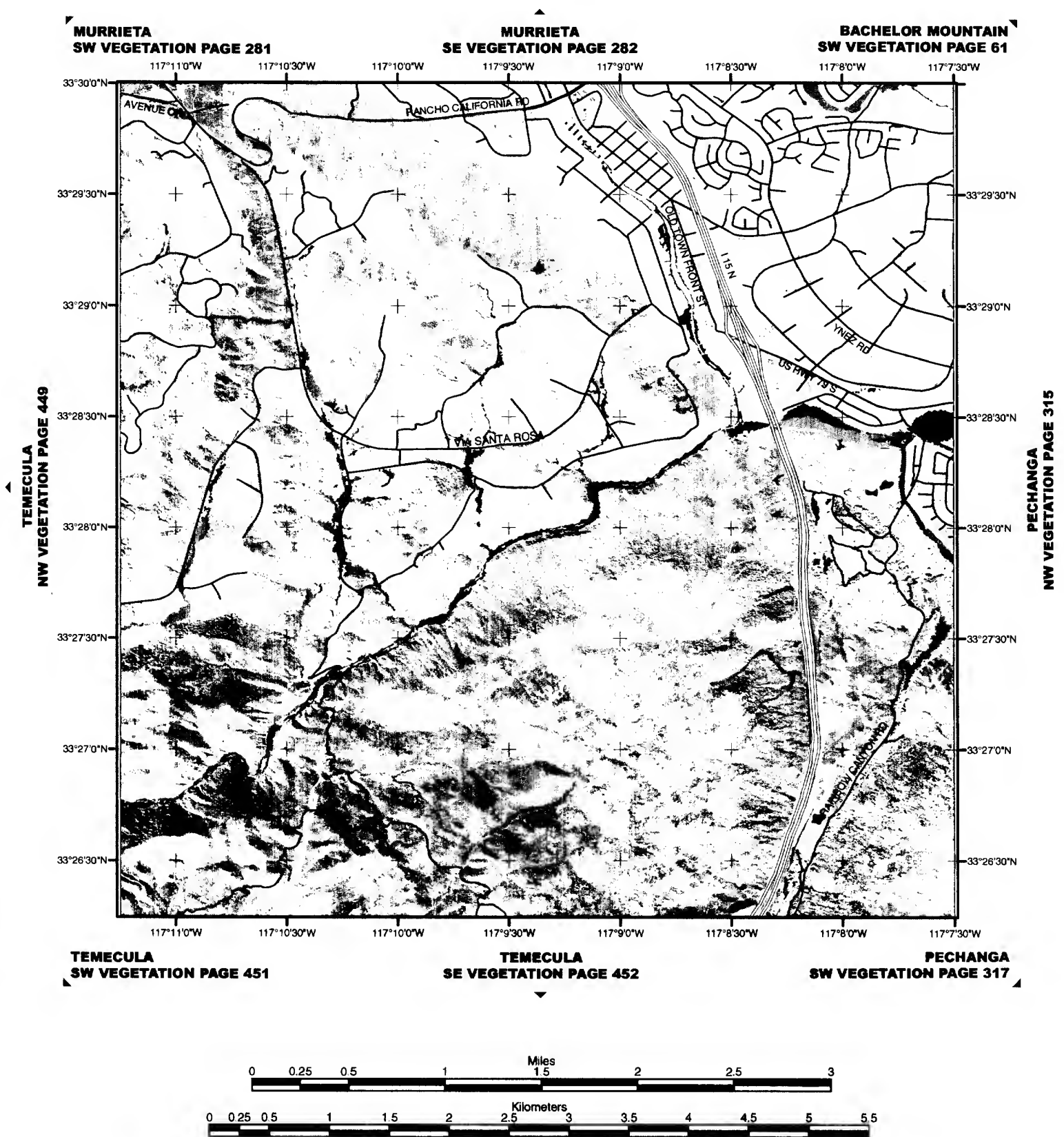




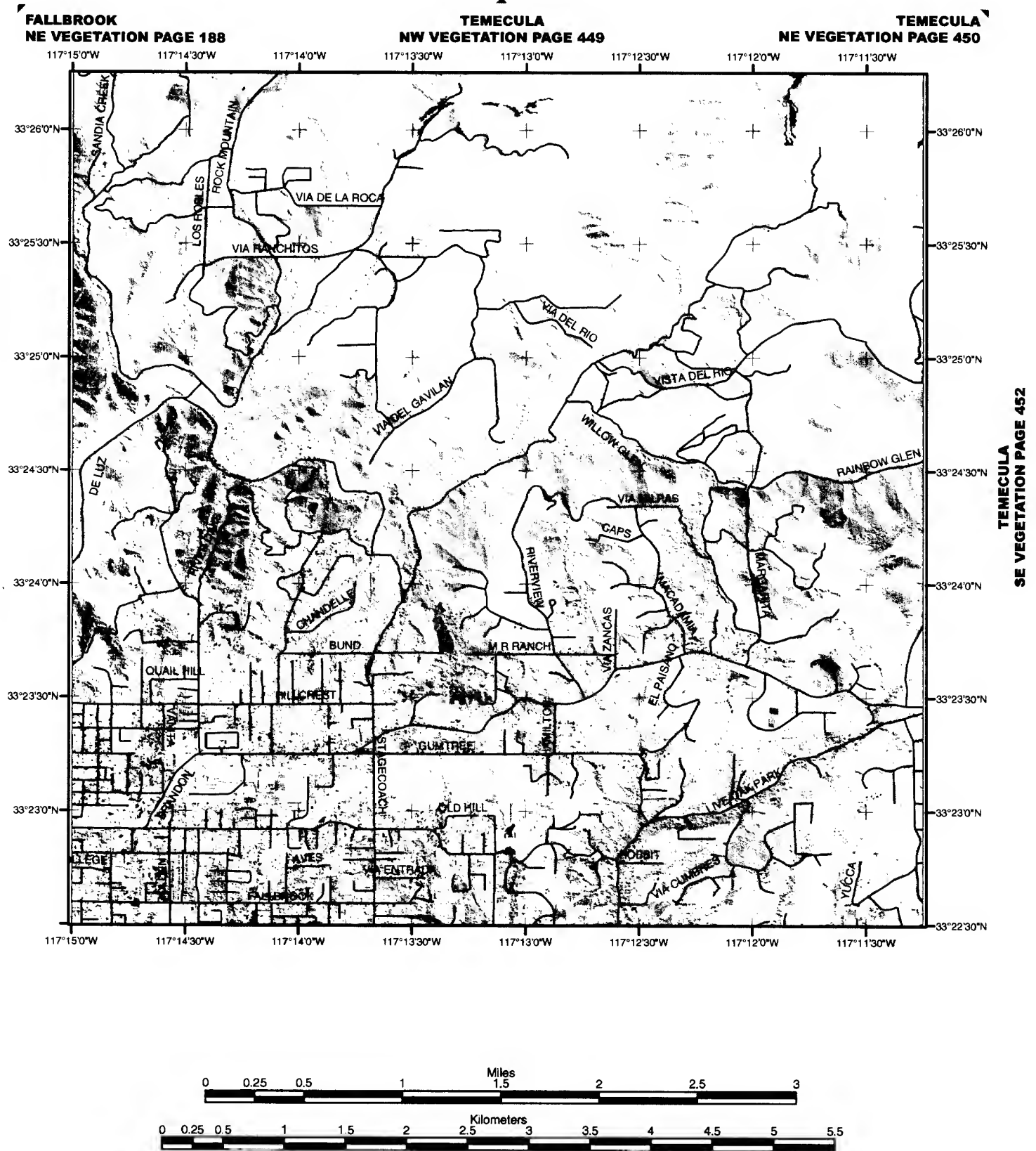
# Temecula North West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



# Temecula North East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

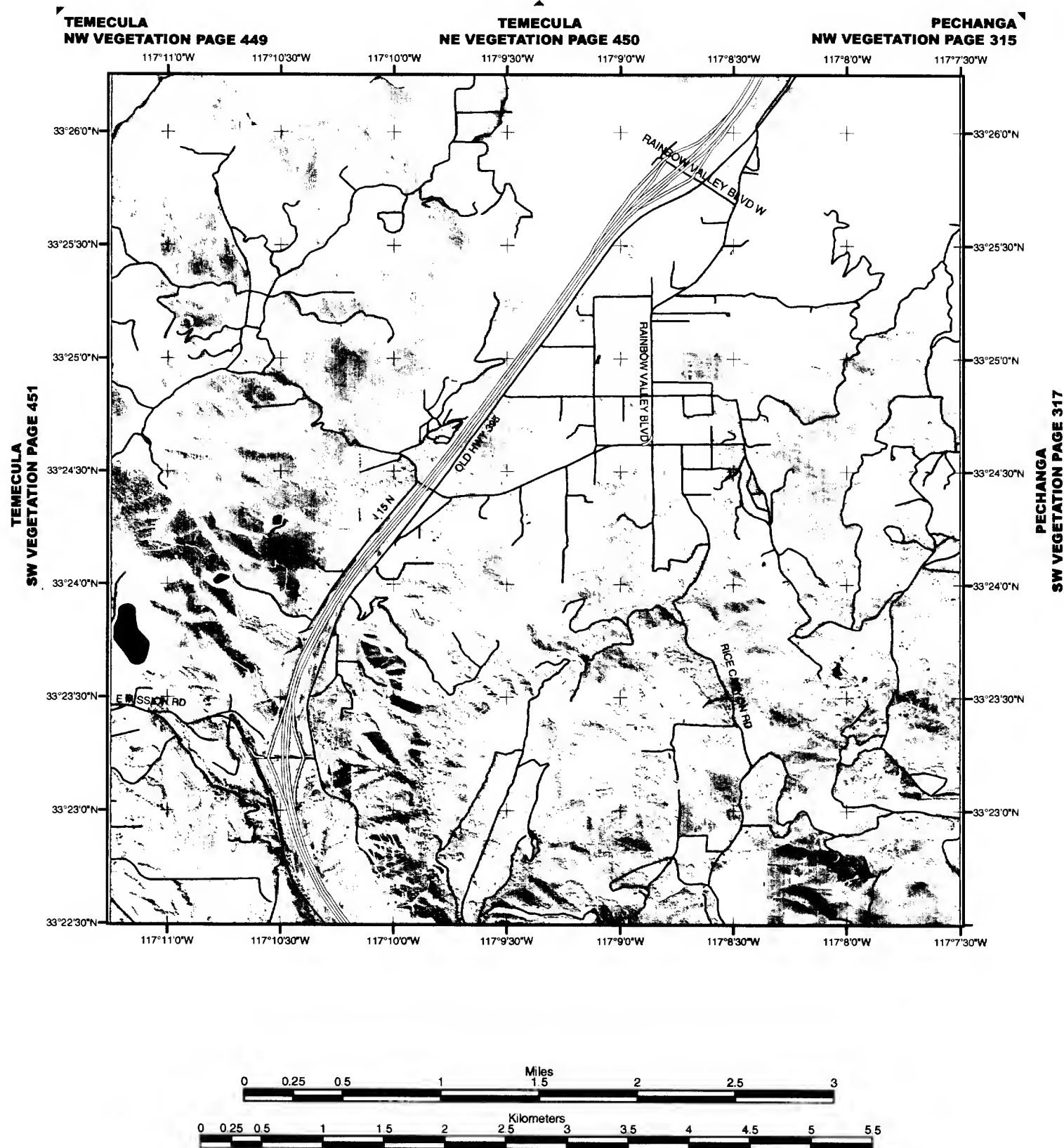


# **Temecula South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources**



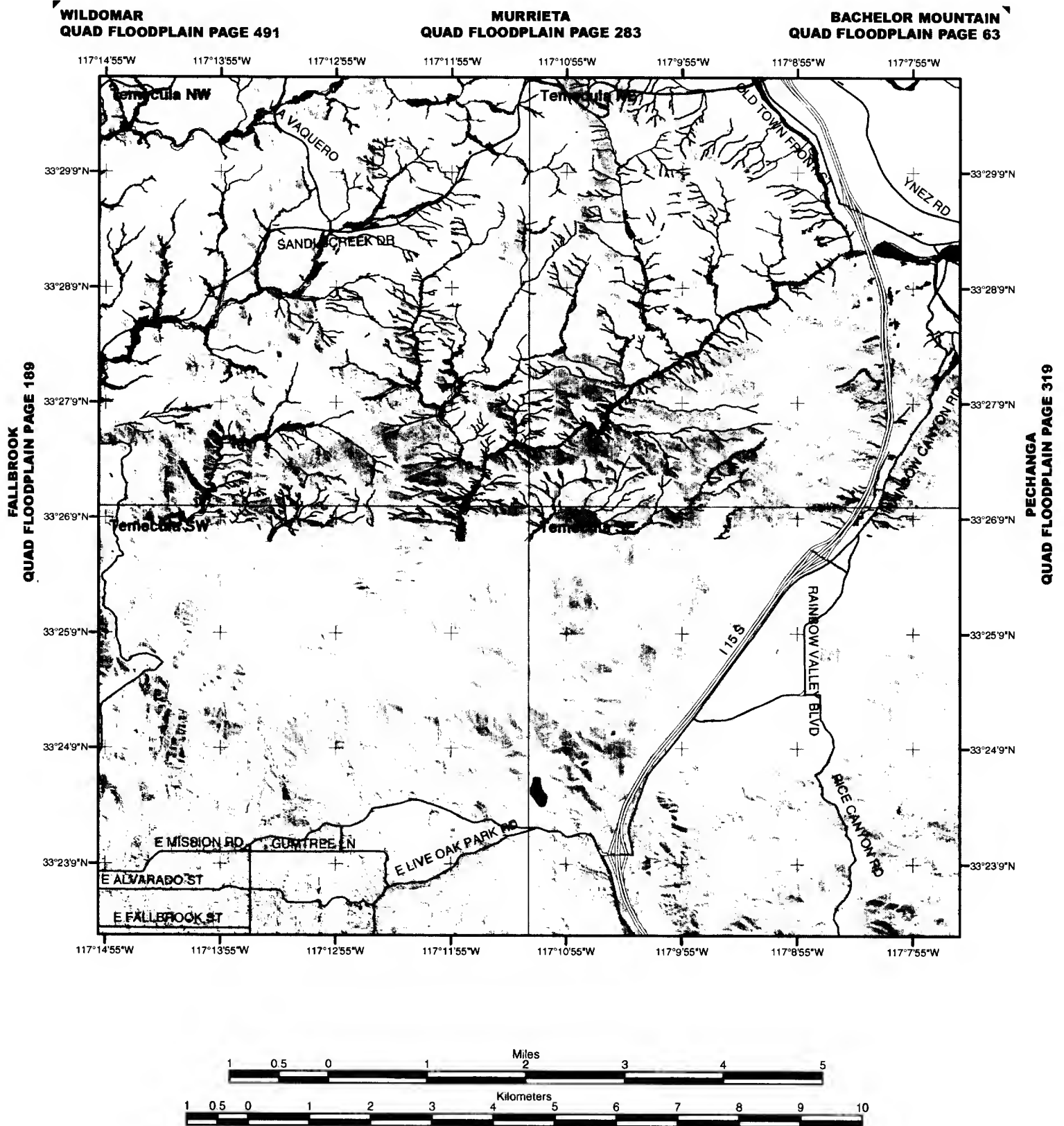


# **Temecula South East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources**

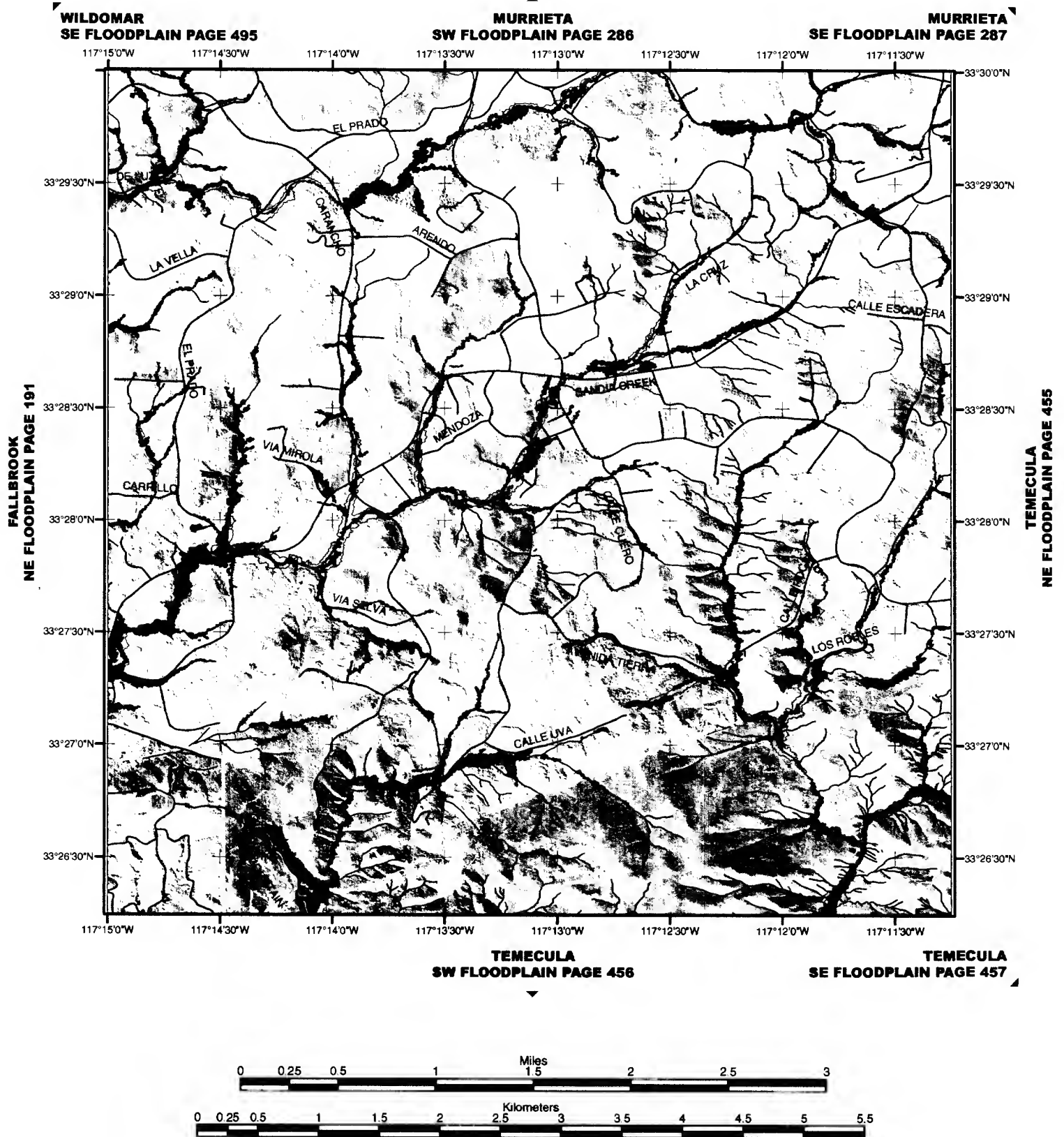


# Temecula Quadrangle

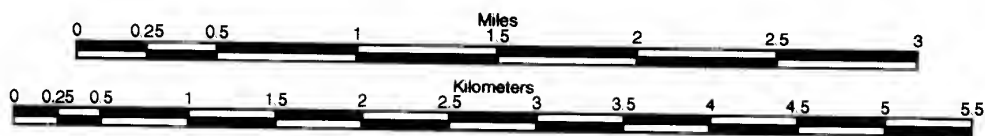
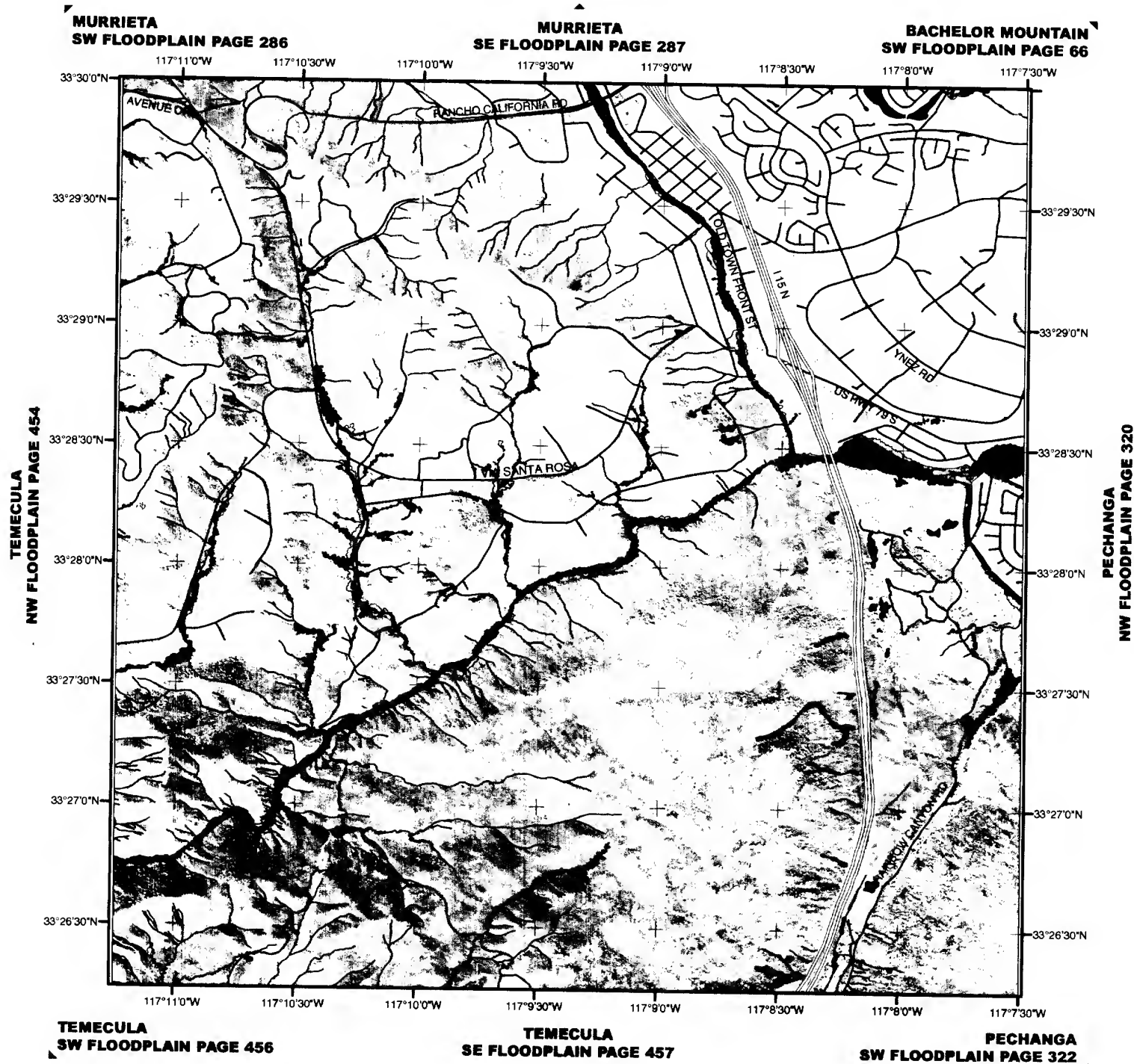
## Hydrogeomorphic Floodplain Units for Aquatic Resources



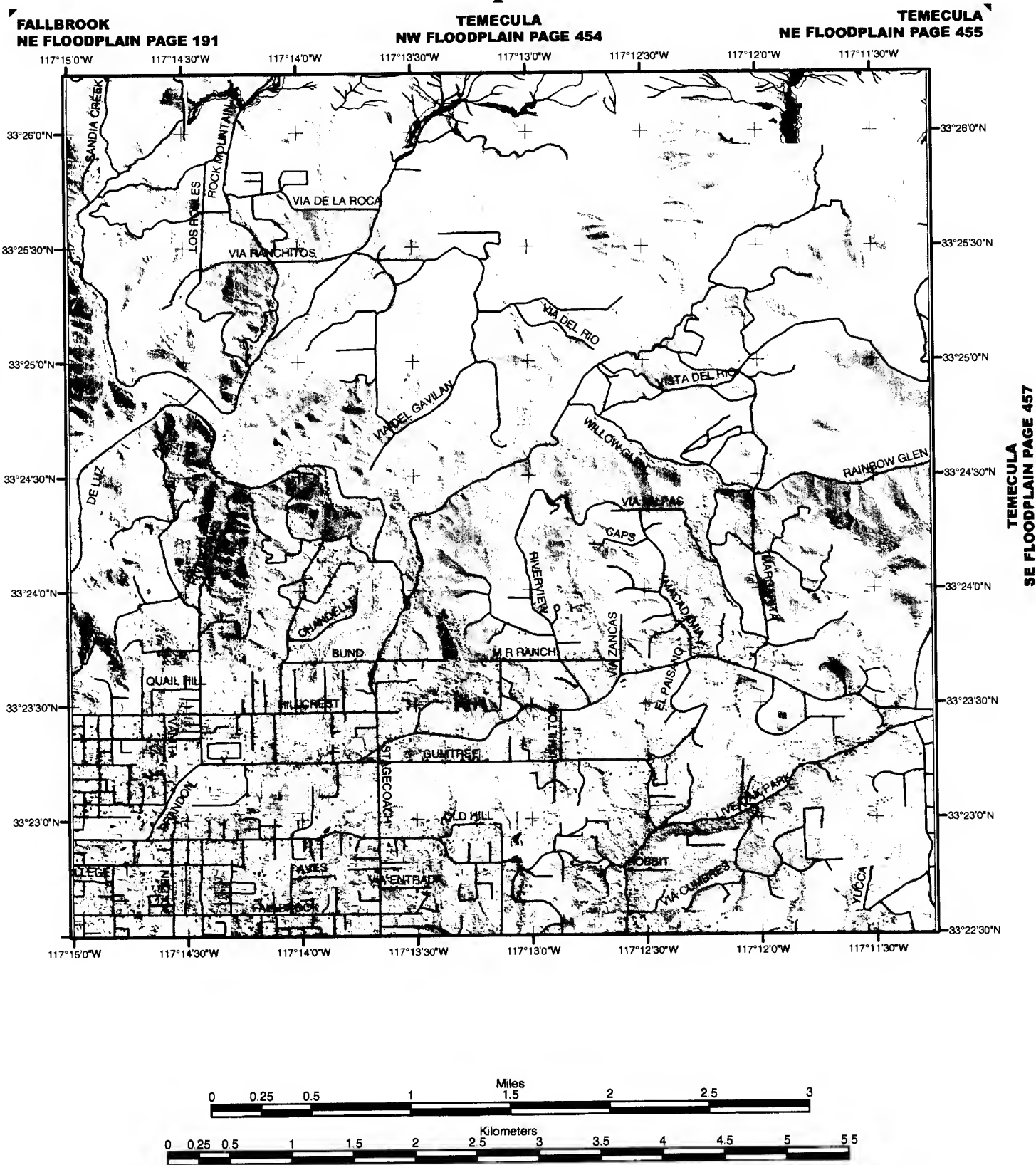
# Temecula North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



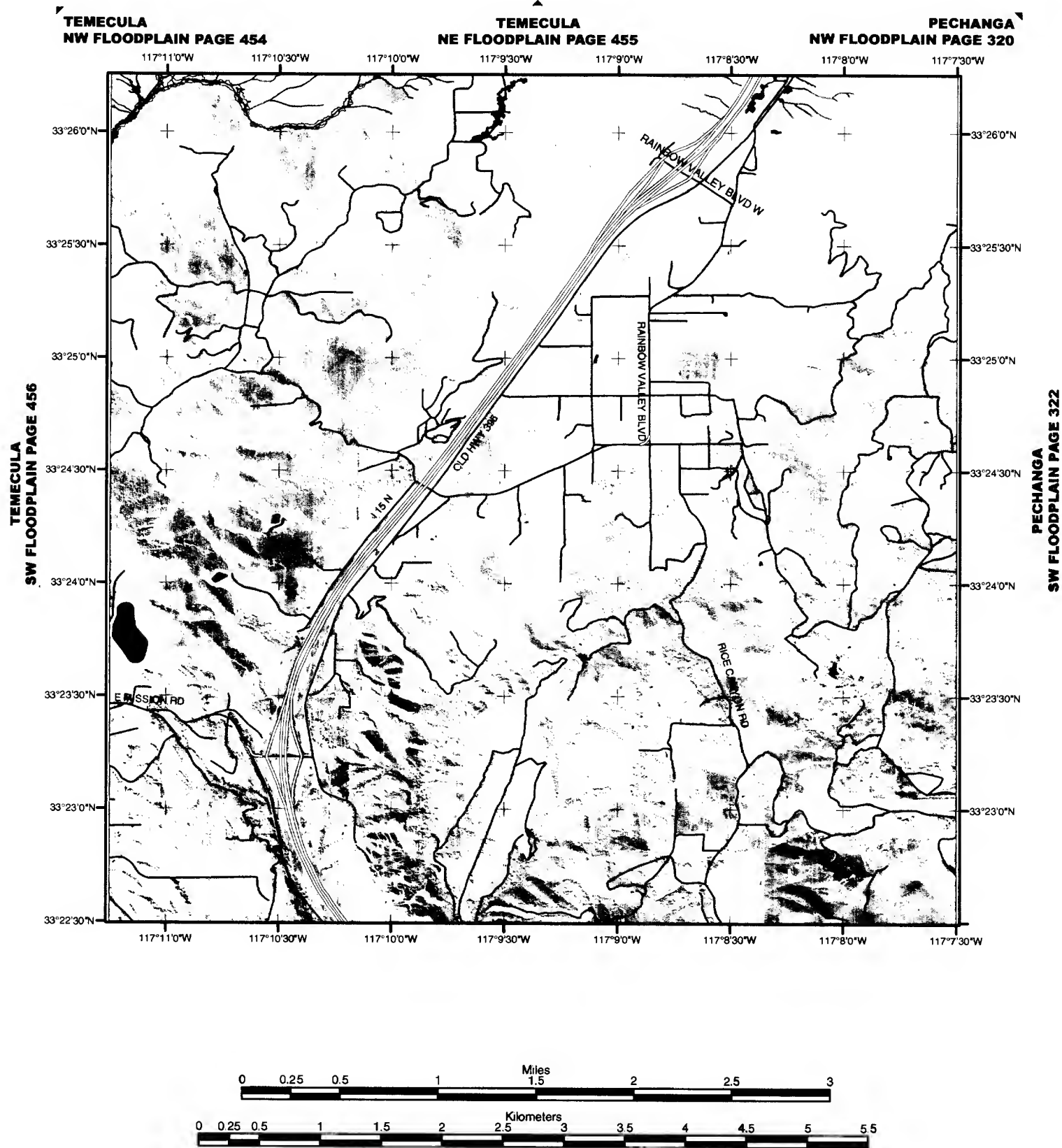
# Temecula North East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



# **Temecula South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources**



# Temecula South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

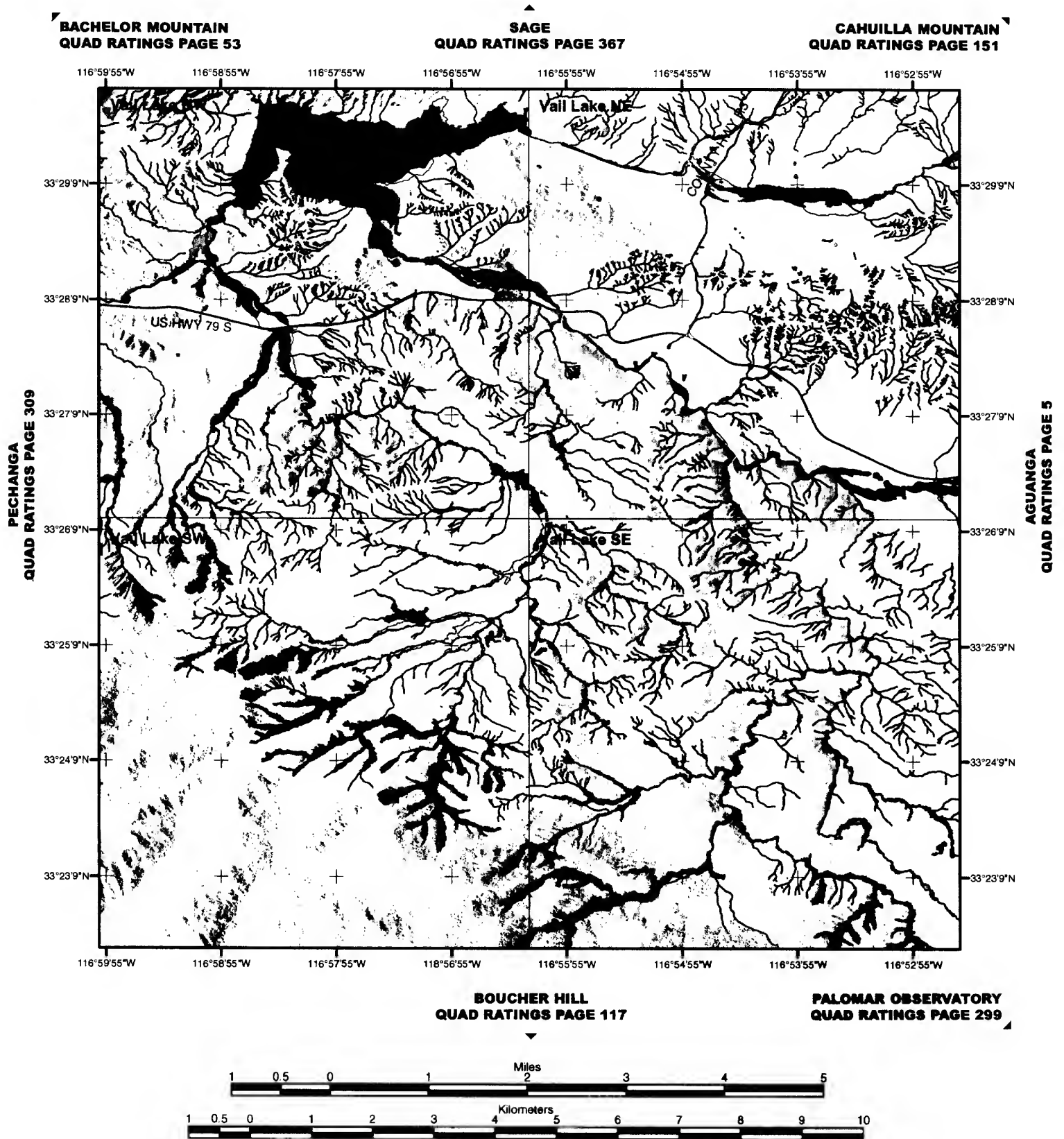






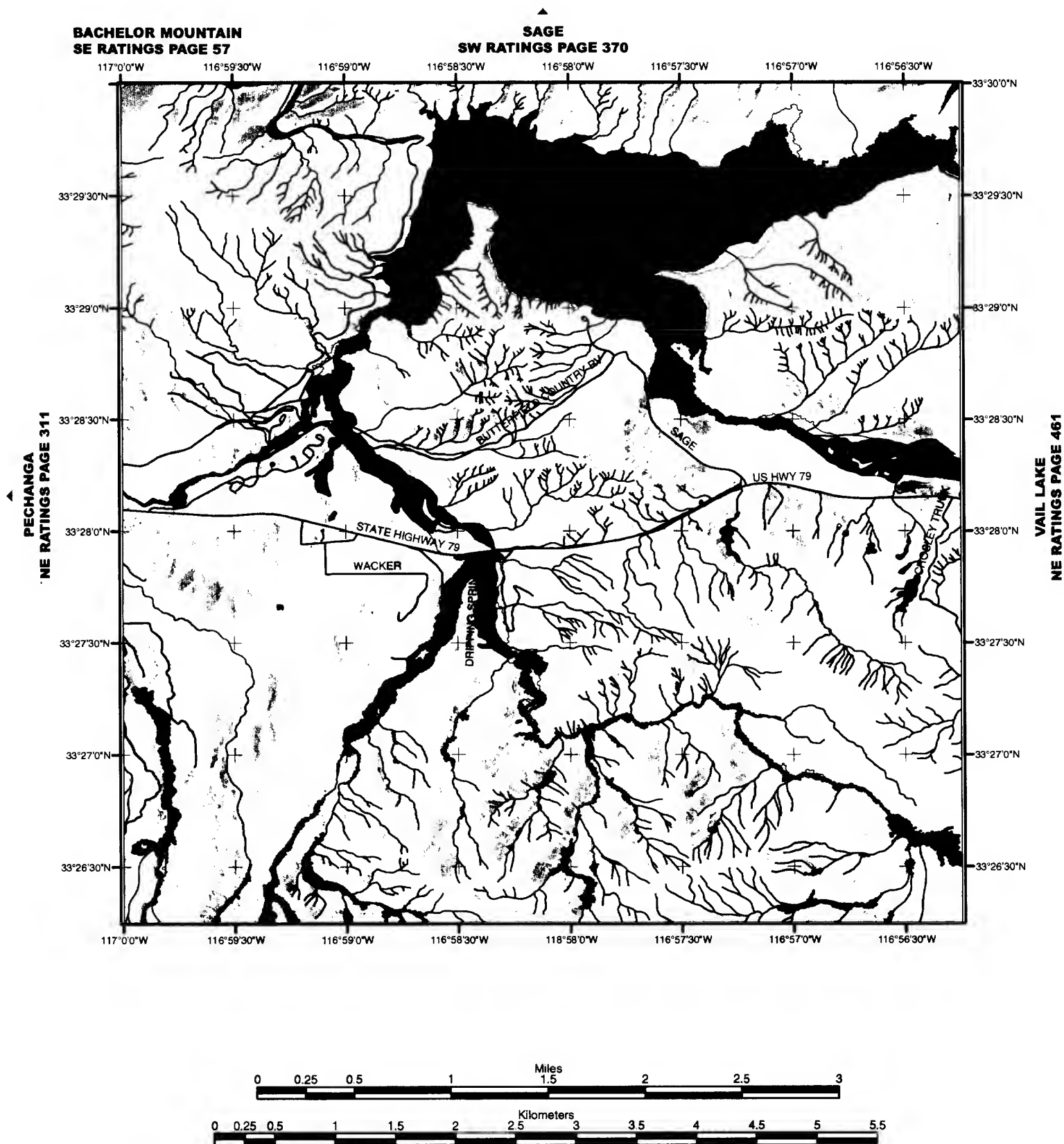
# Vail Lake Quadrangle

## Regulatory Probability Ratings for Aquatic Resources

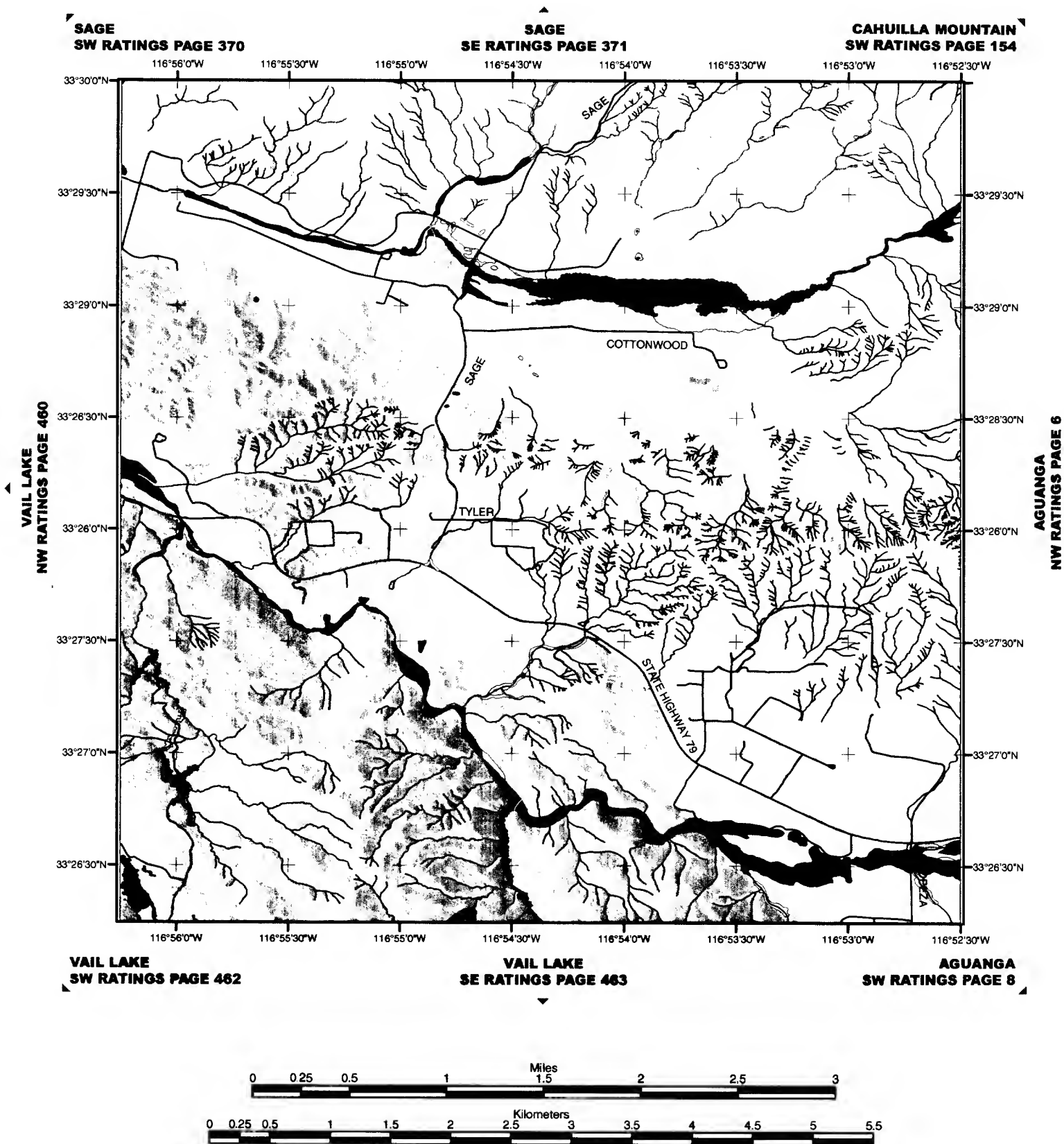




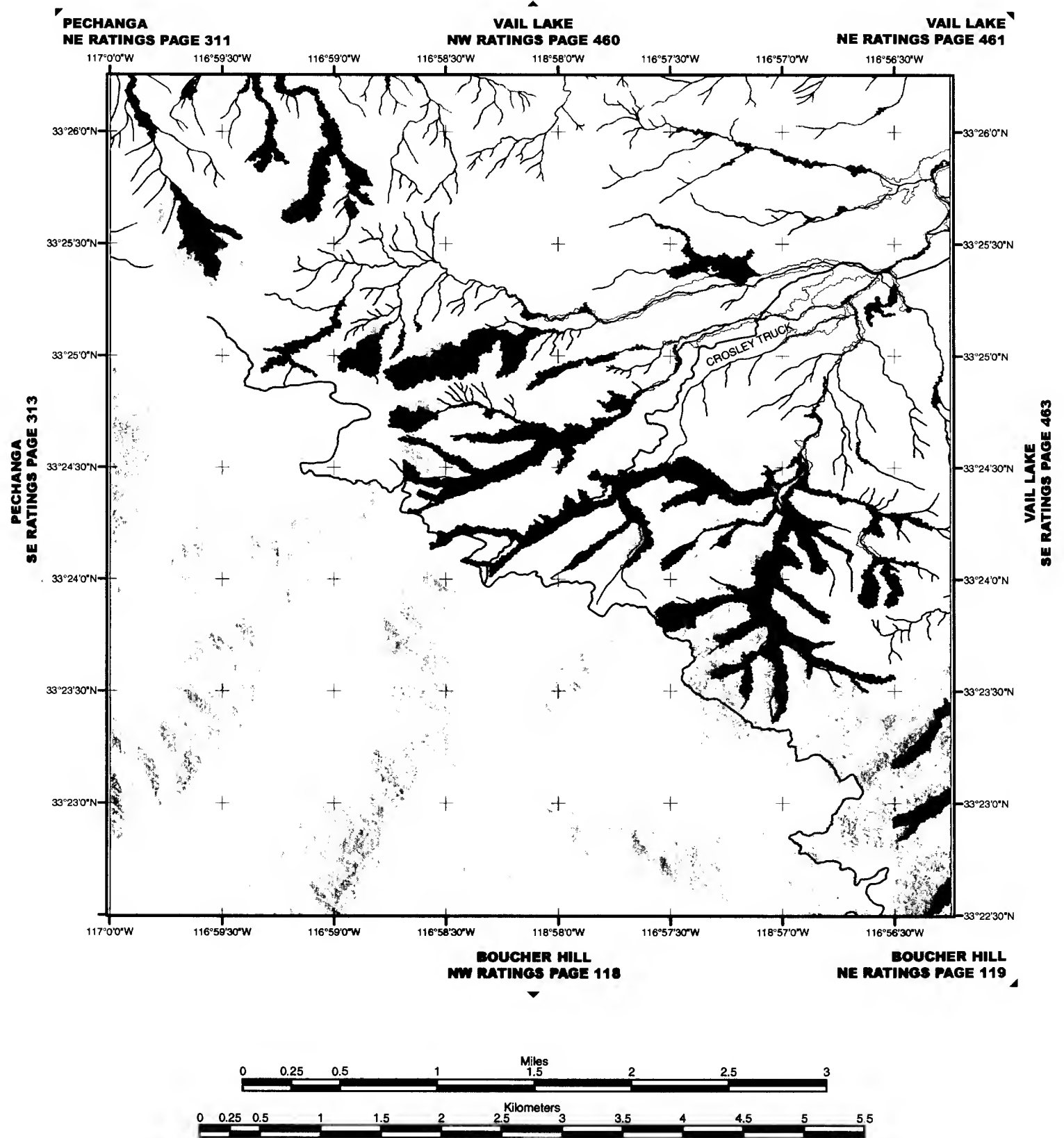
# Vail Lake North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



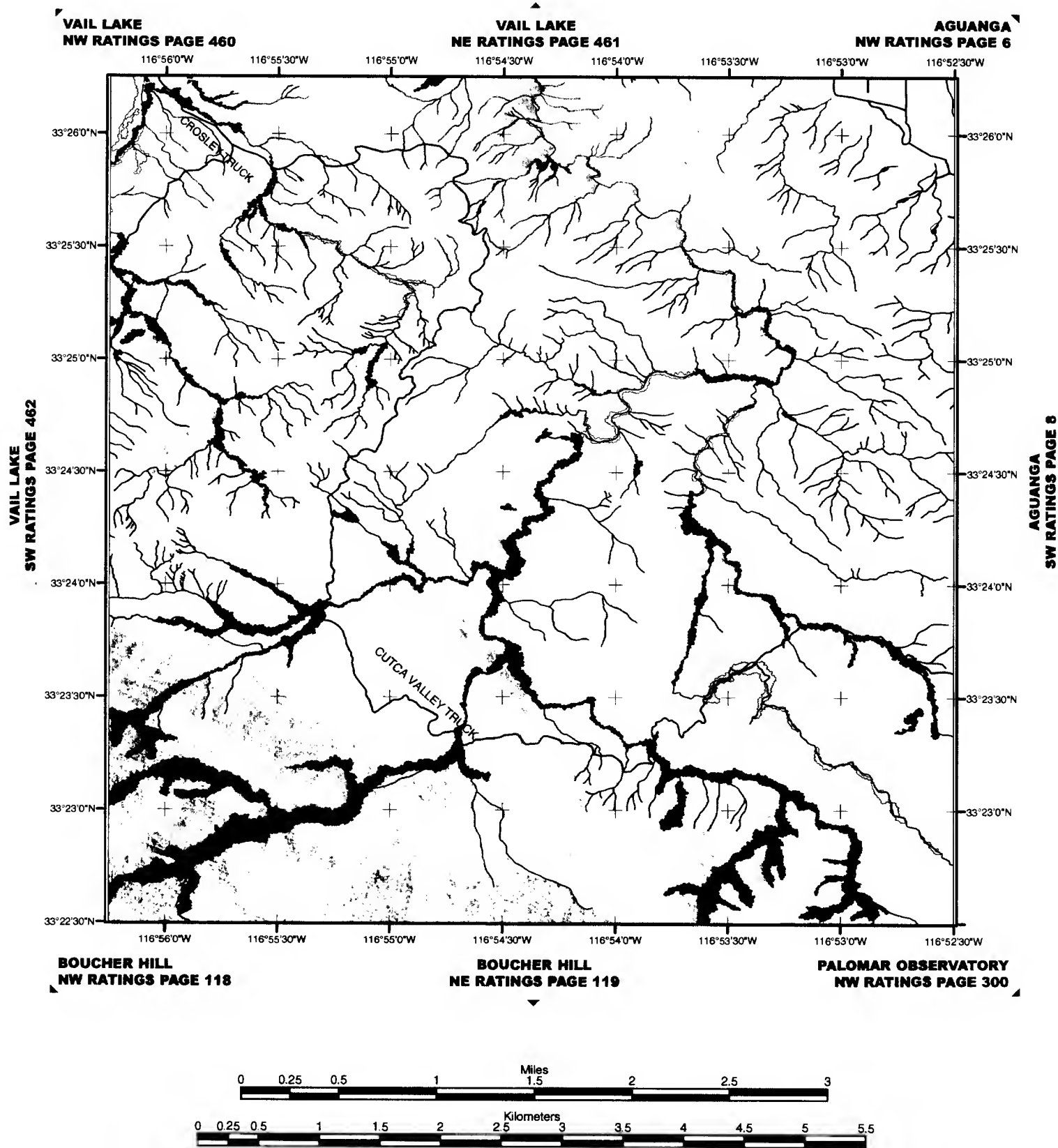
## Vail Lake North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



# Vail Lake South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

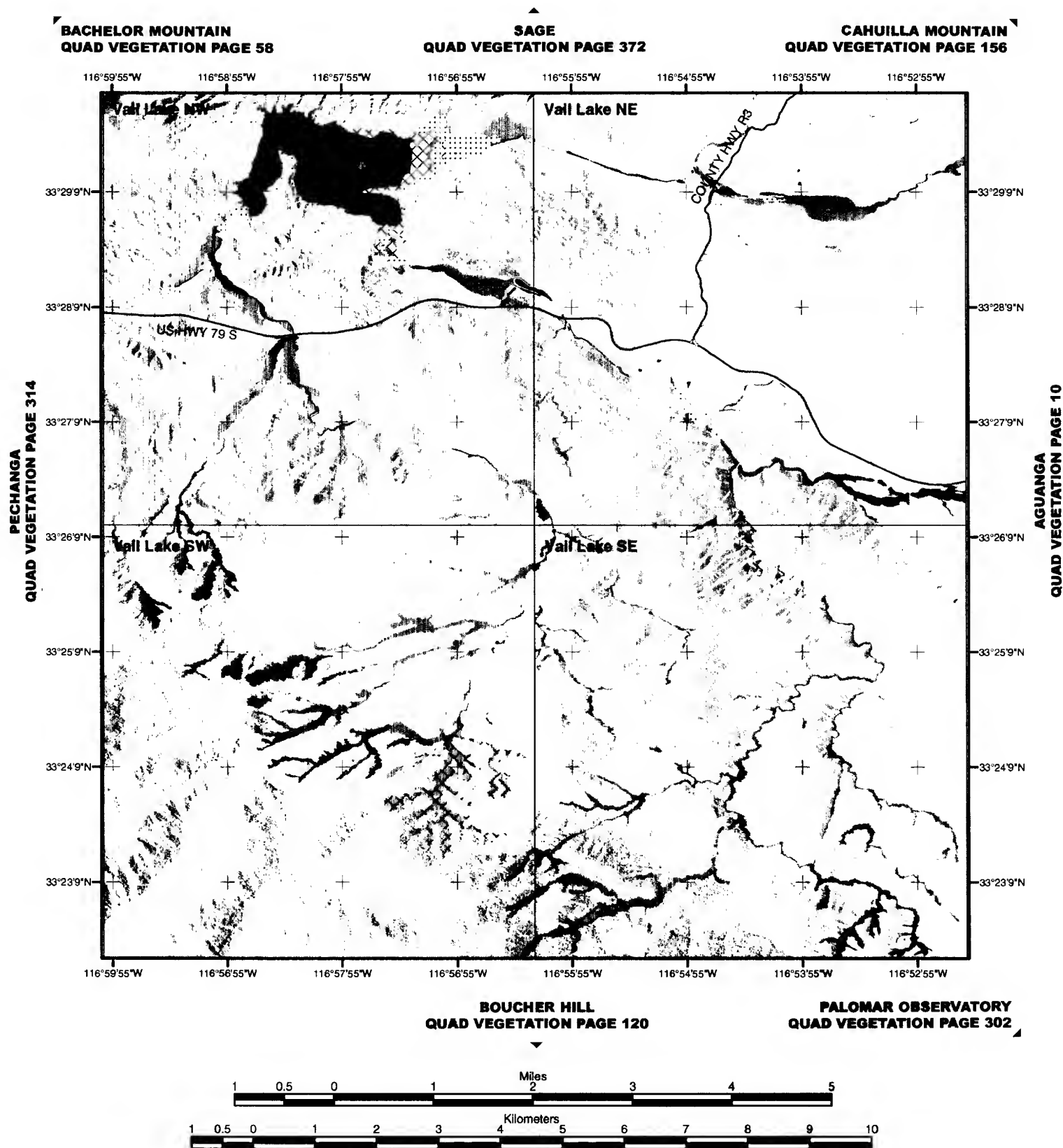


# Vail Lake South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

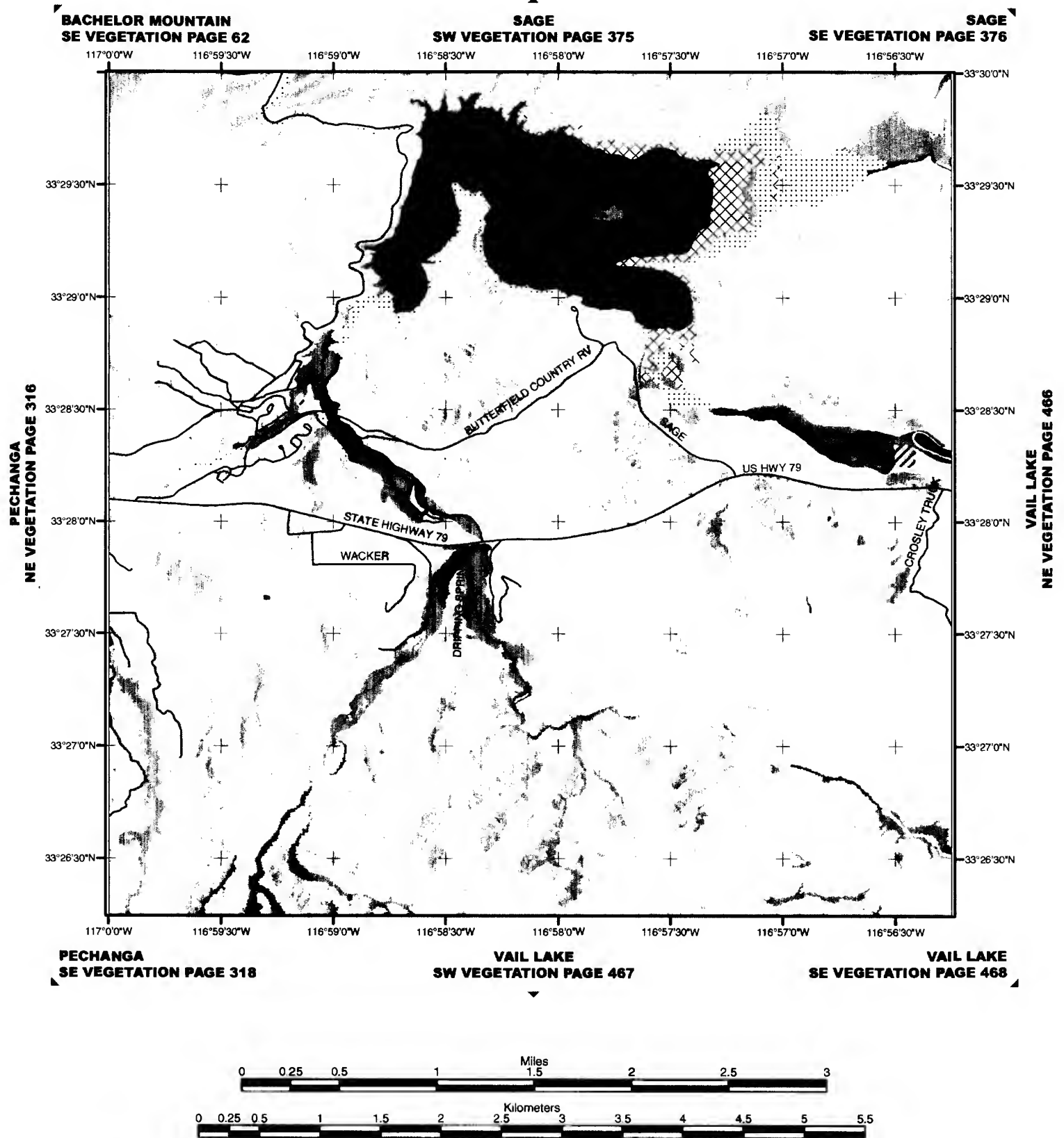


# Vail Lake Quadrangle

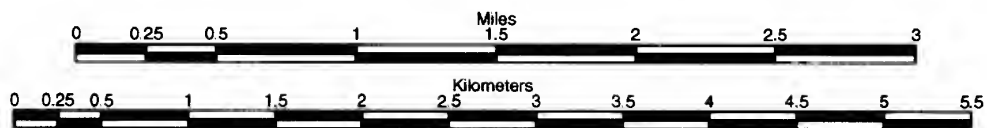
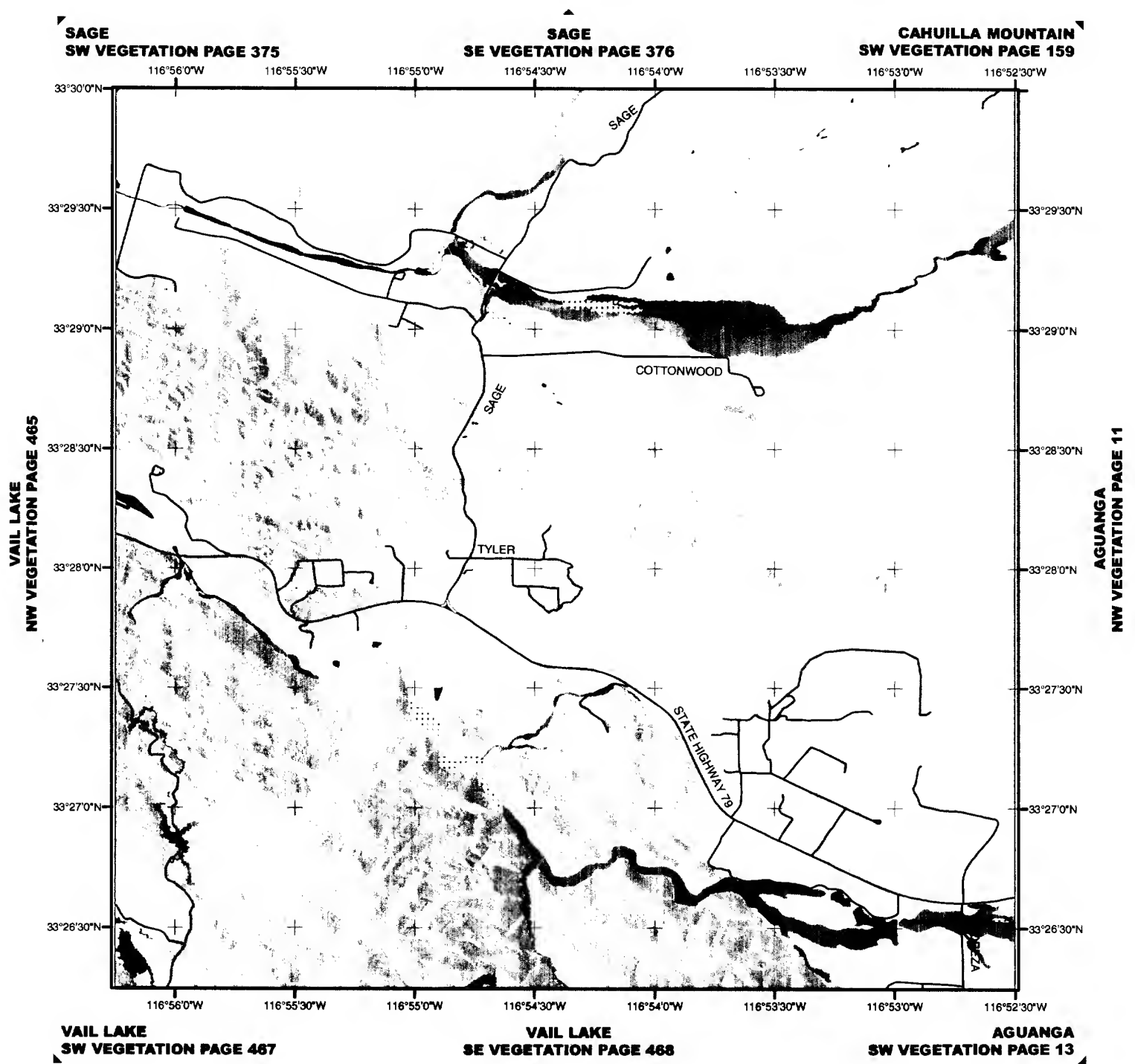
## Vegetation Species Association Units for Aquatic Resources



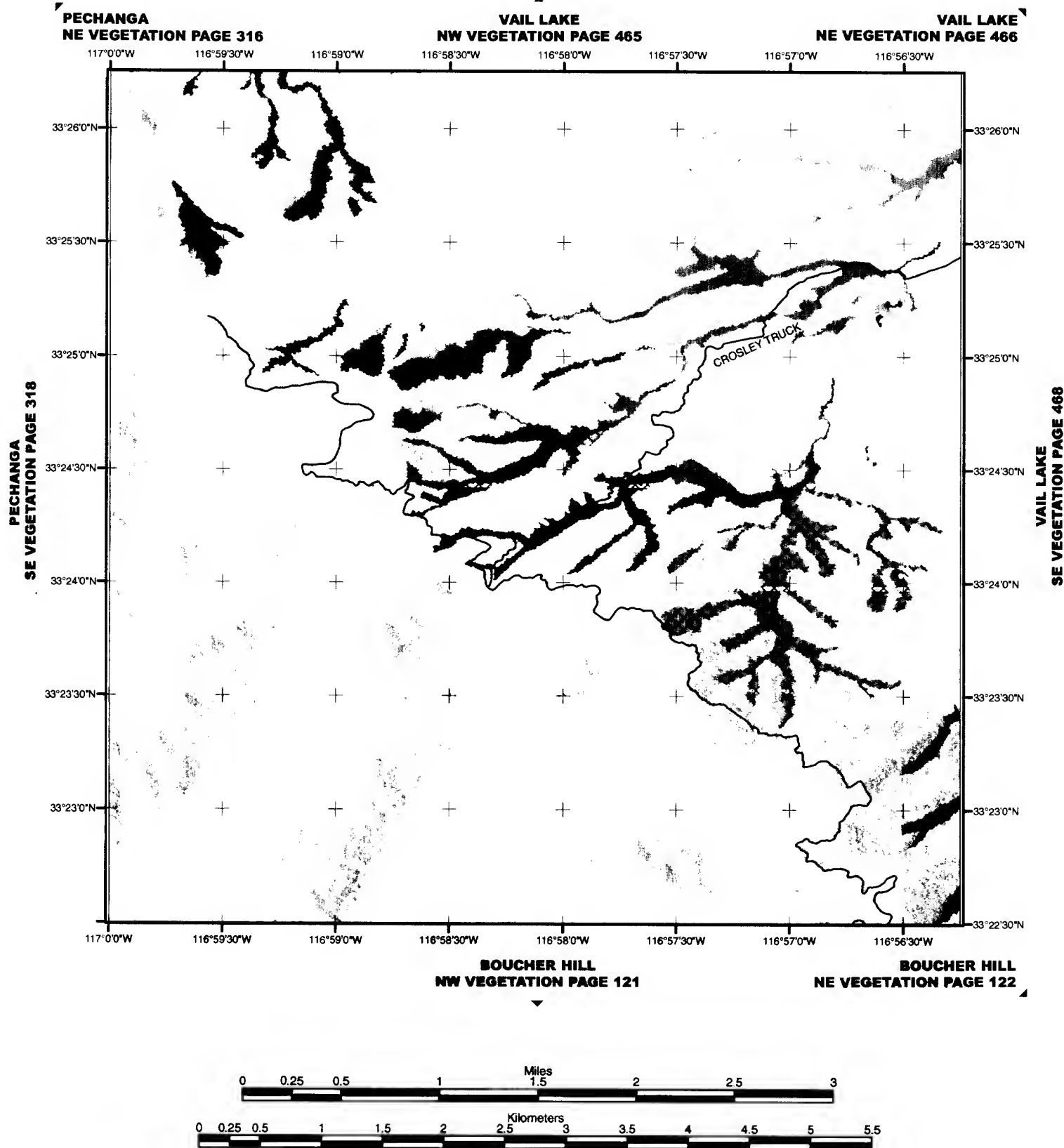
# Vail Lake North West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



# Vail Lake North East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

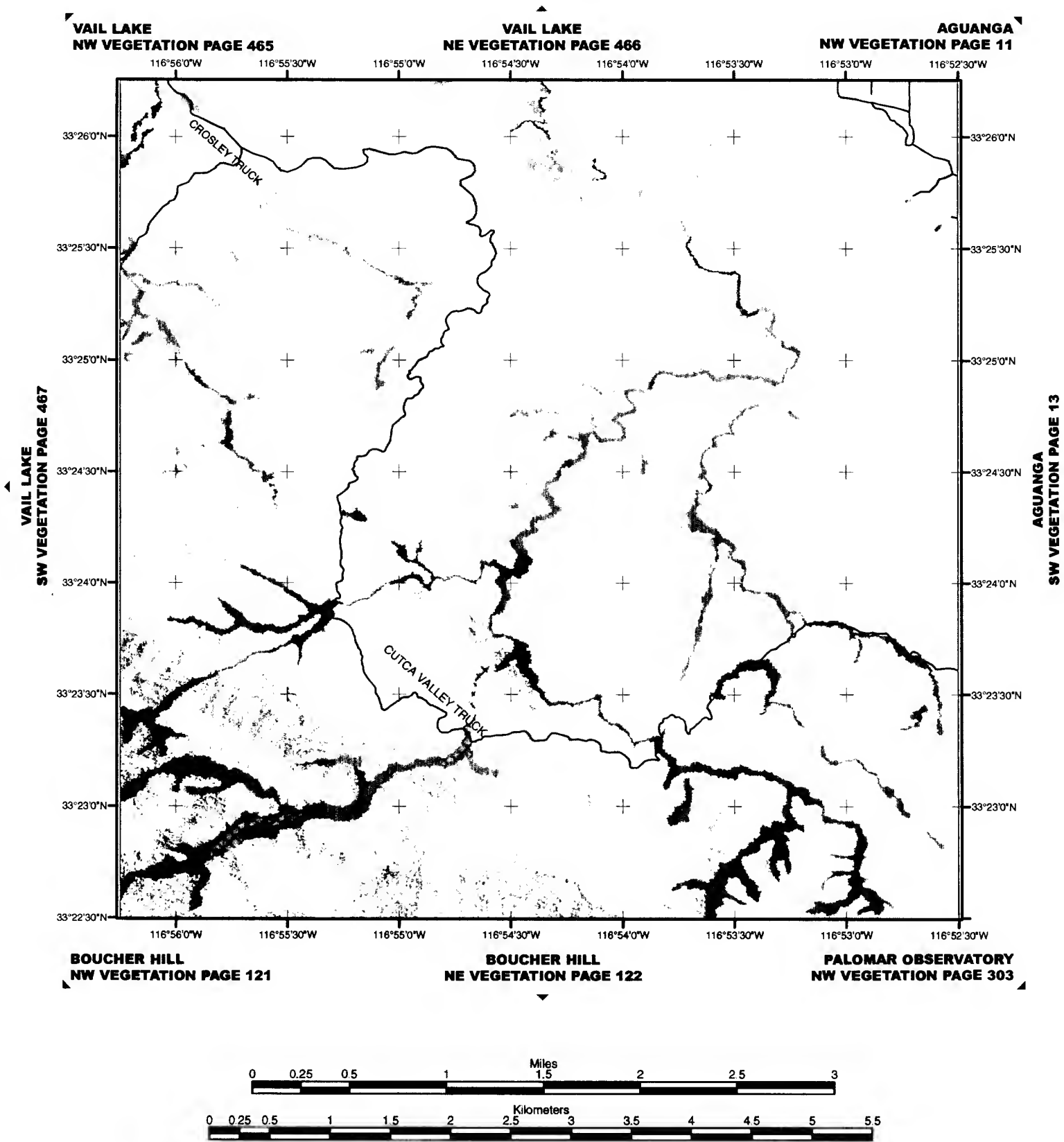


# Vail Lake South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



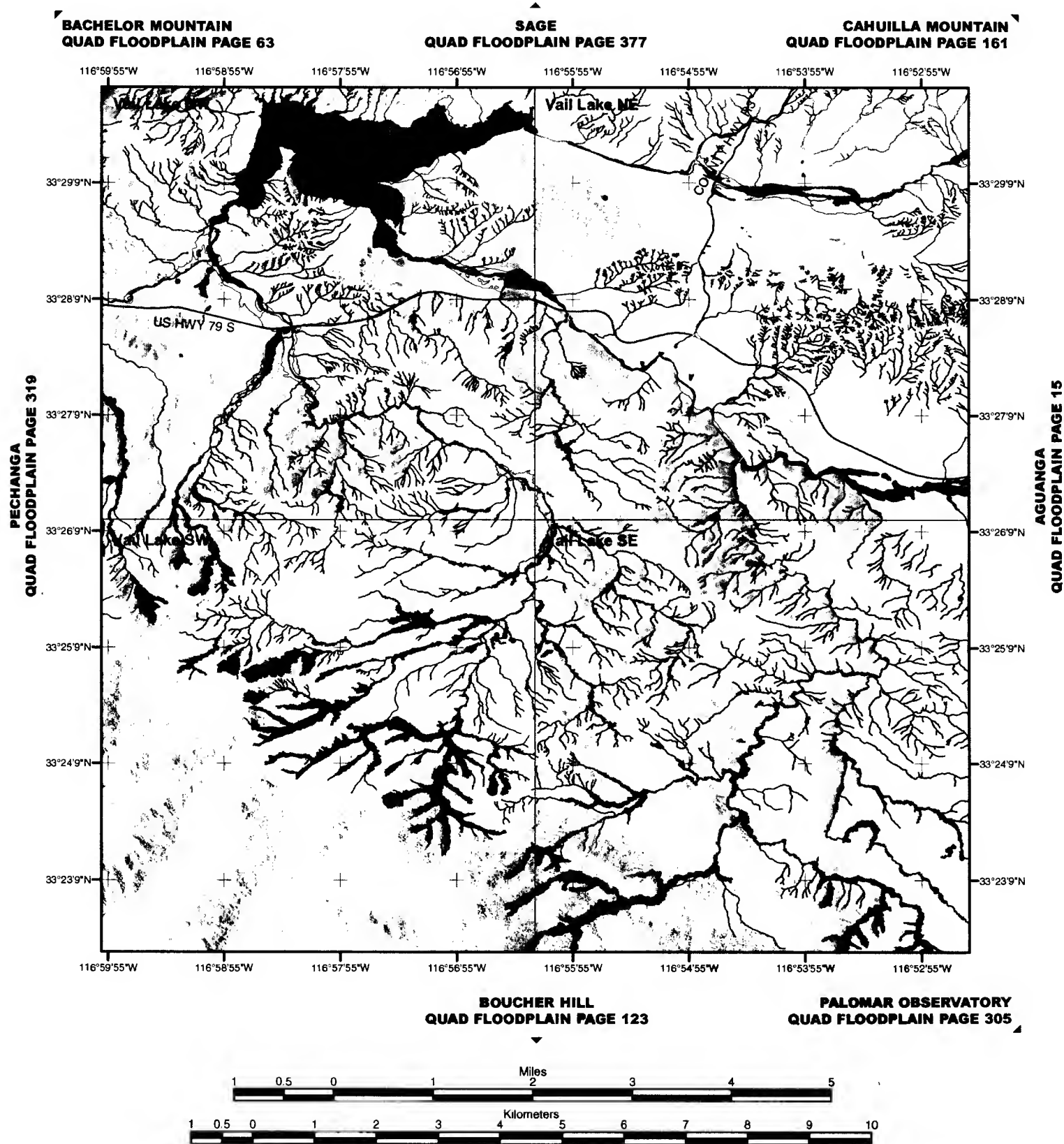


# Vail Lake South East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

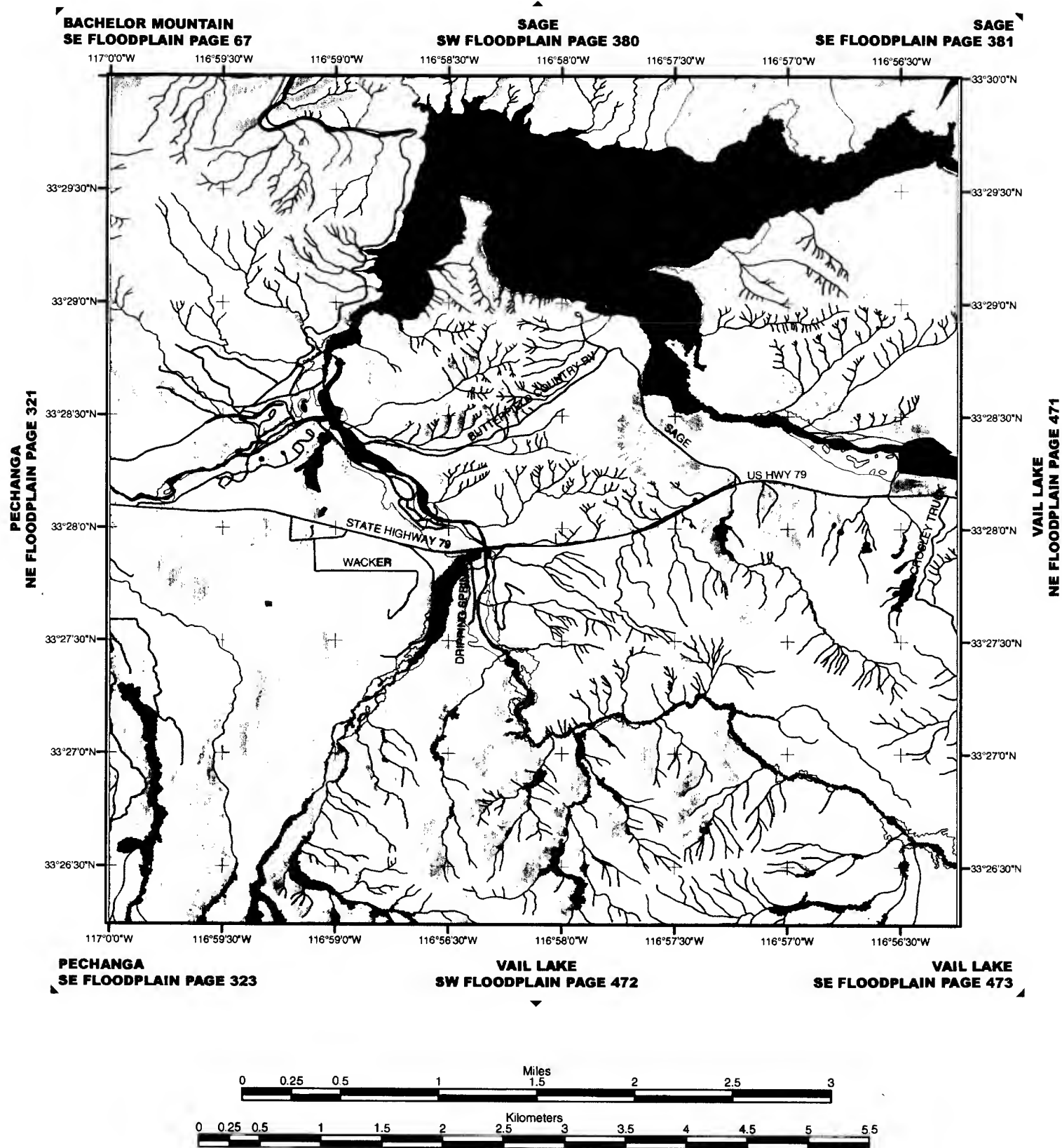


# Vail Lake Quadrangle

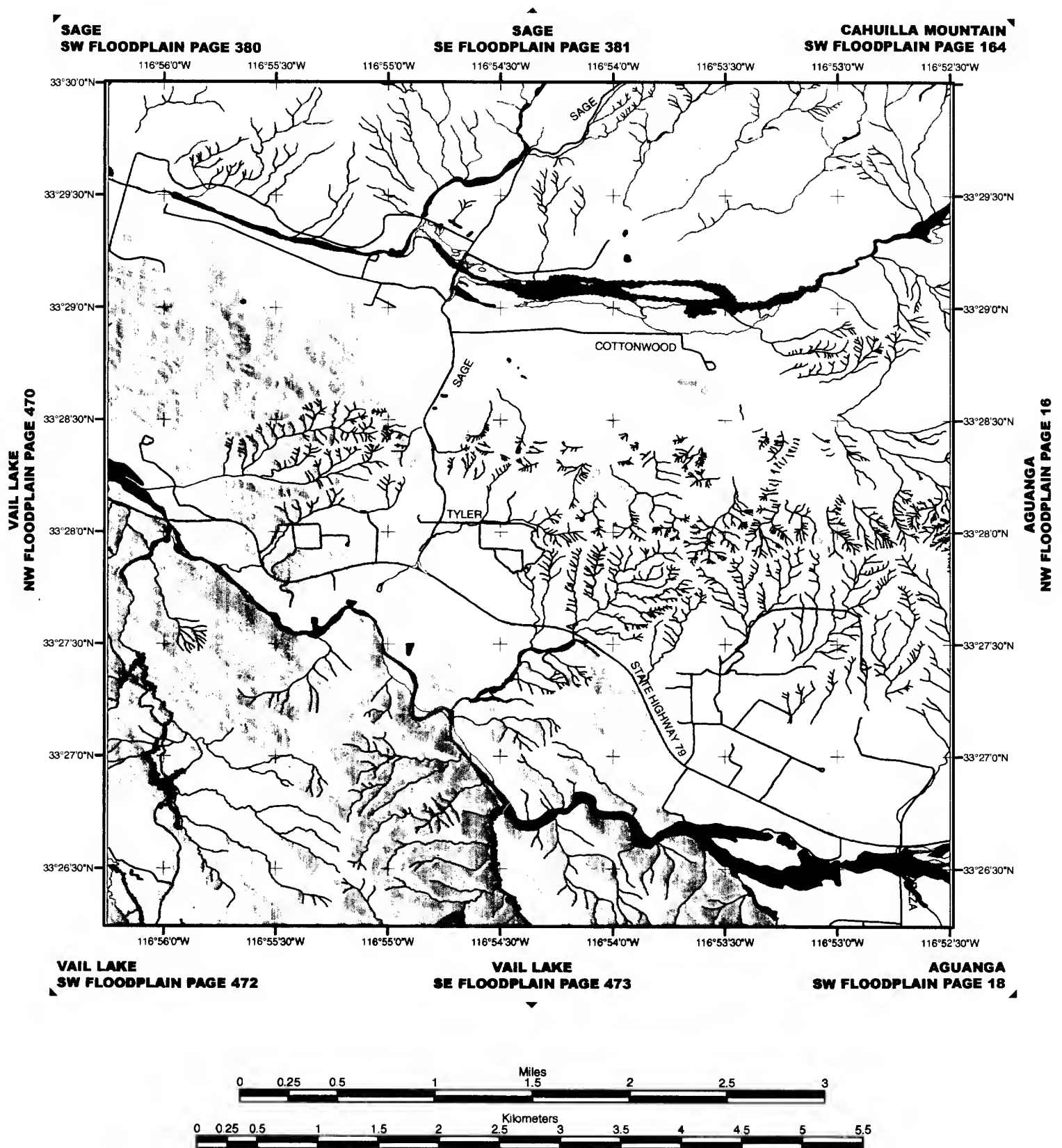
## Hydrogeomorphic Floodplain Units for Aquatic Resources



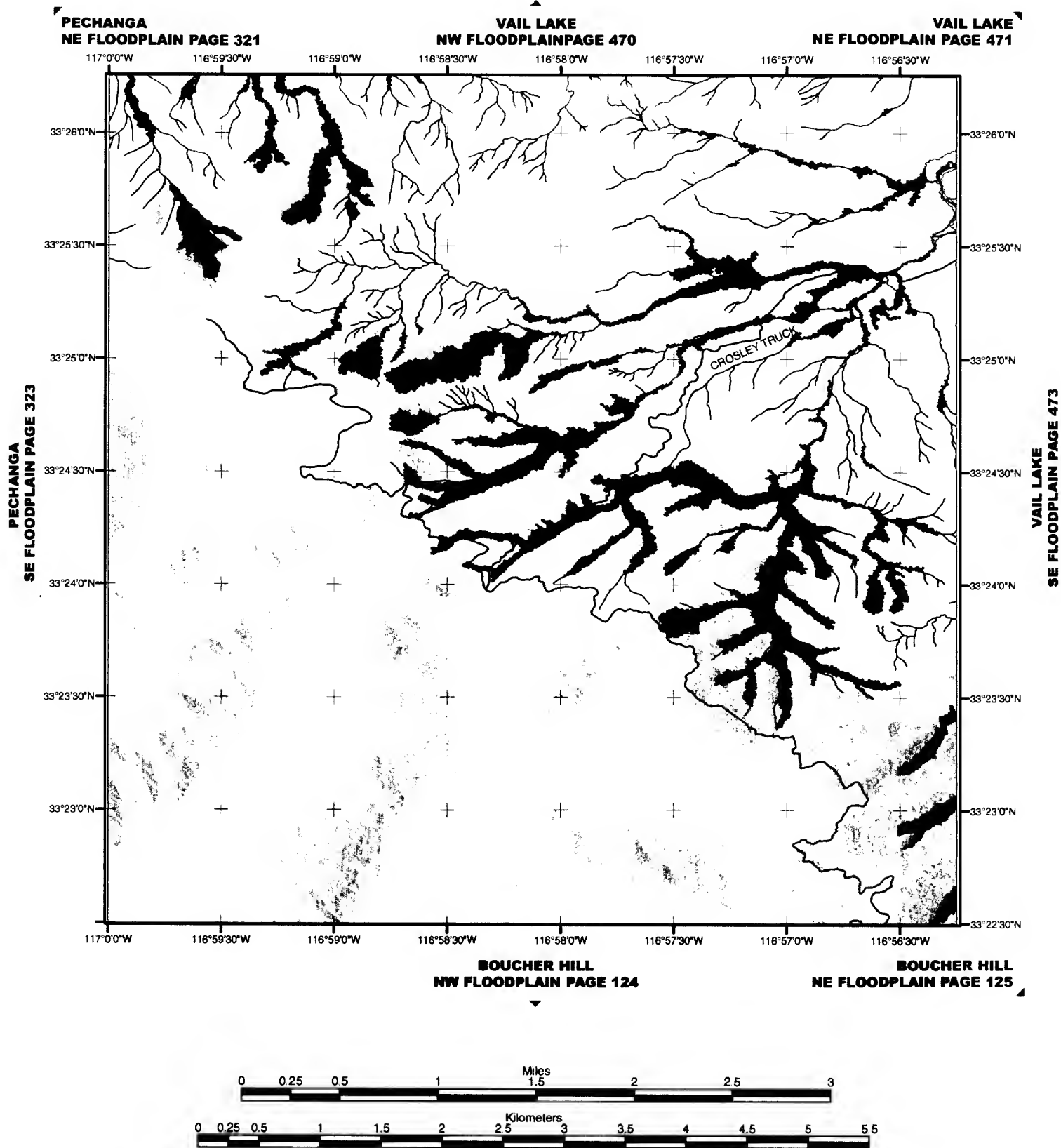
# Vail Lake North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



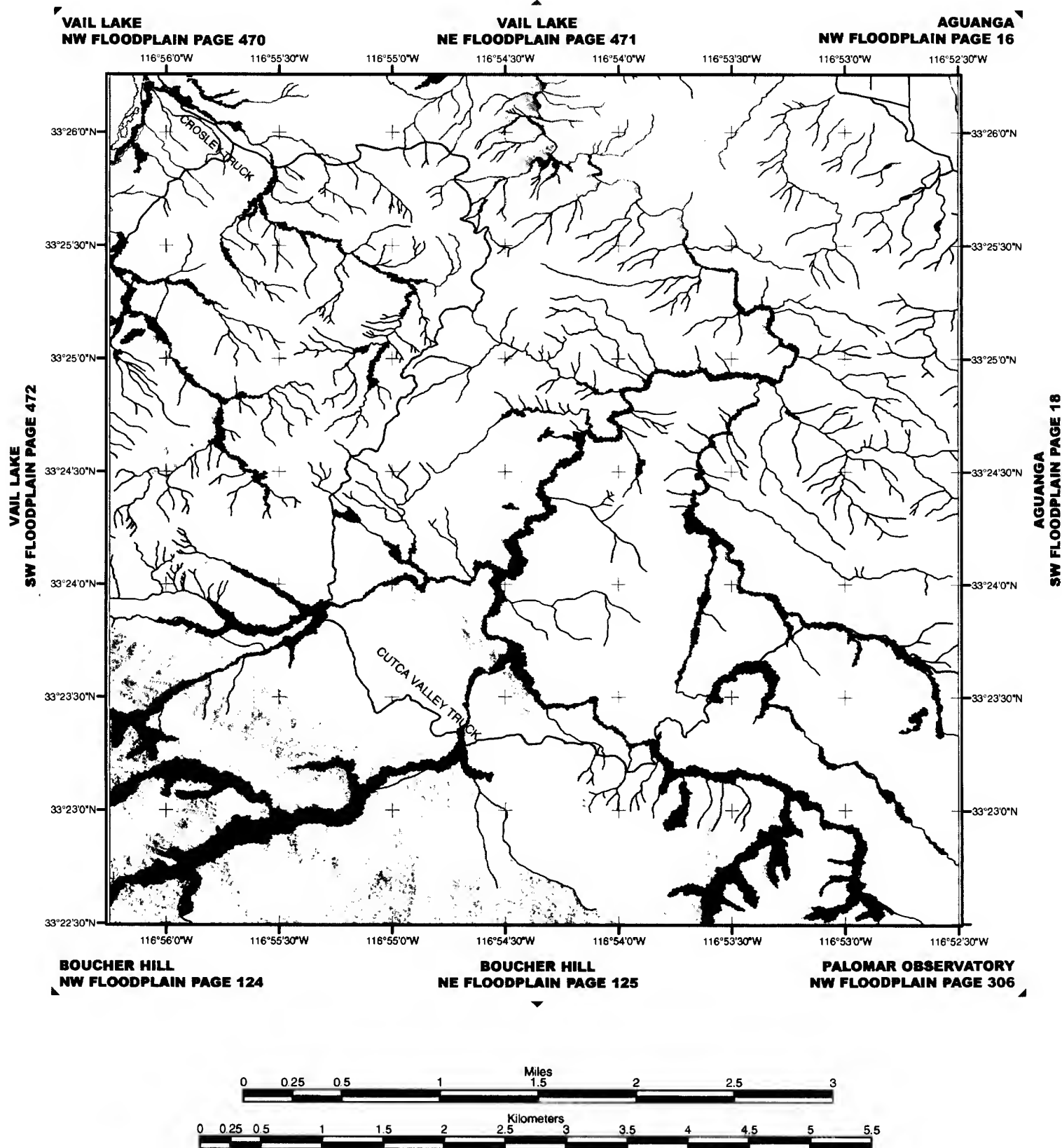
# Vail Lake North East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



# Vail Lake South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



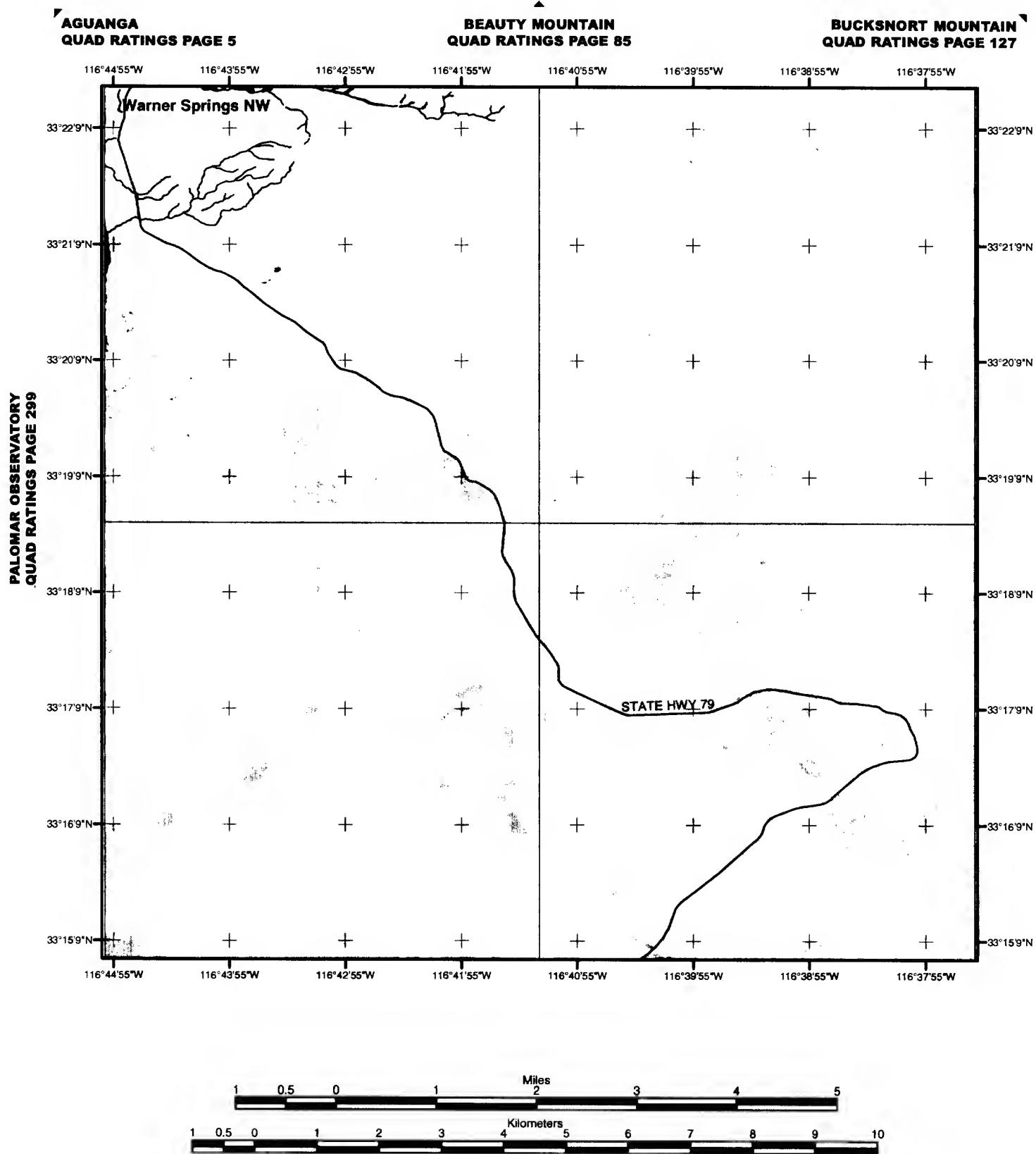
# Vail Lake South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources





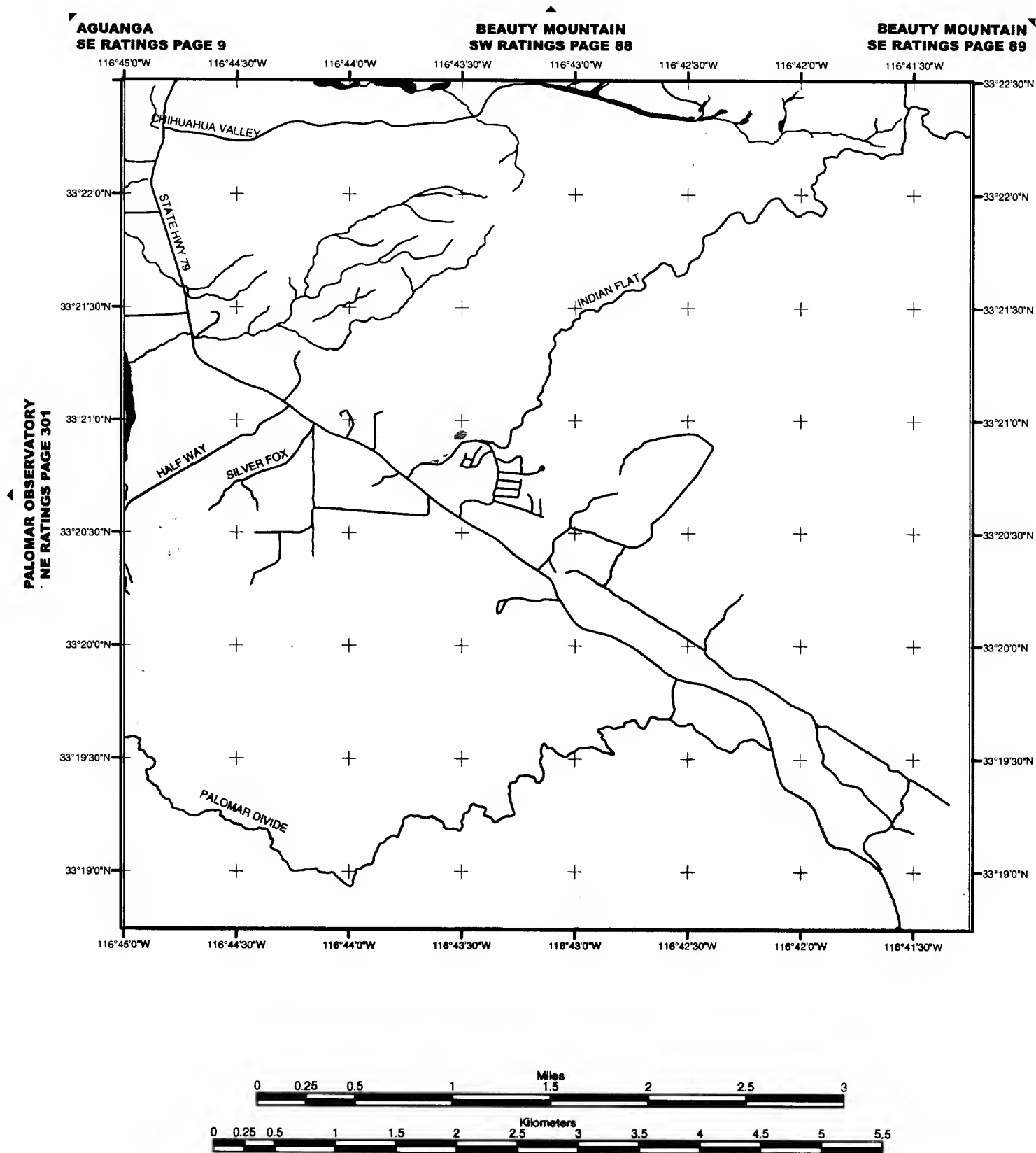
# Warner Springs Quadrangle

## Regulatory Probability Ratings for Aquatic Resources



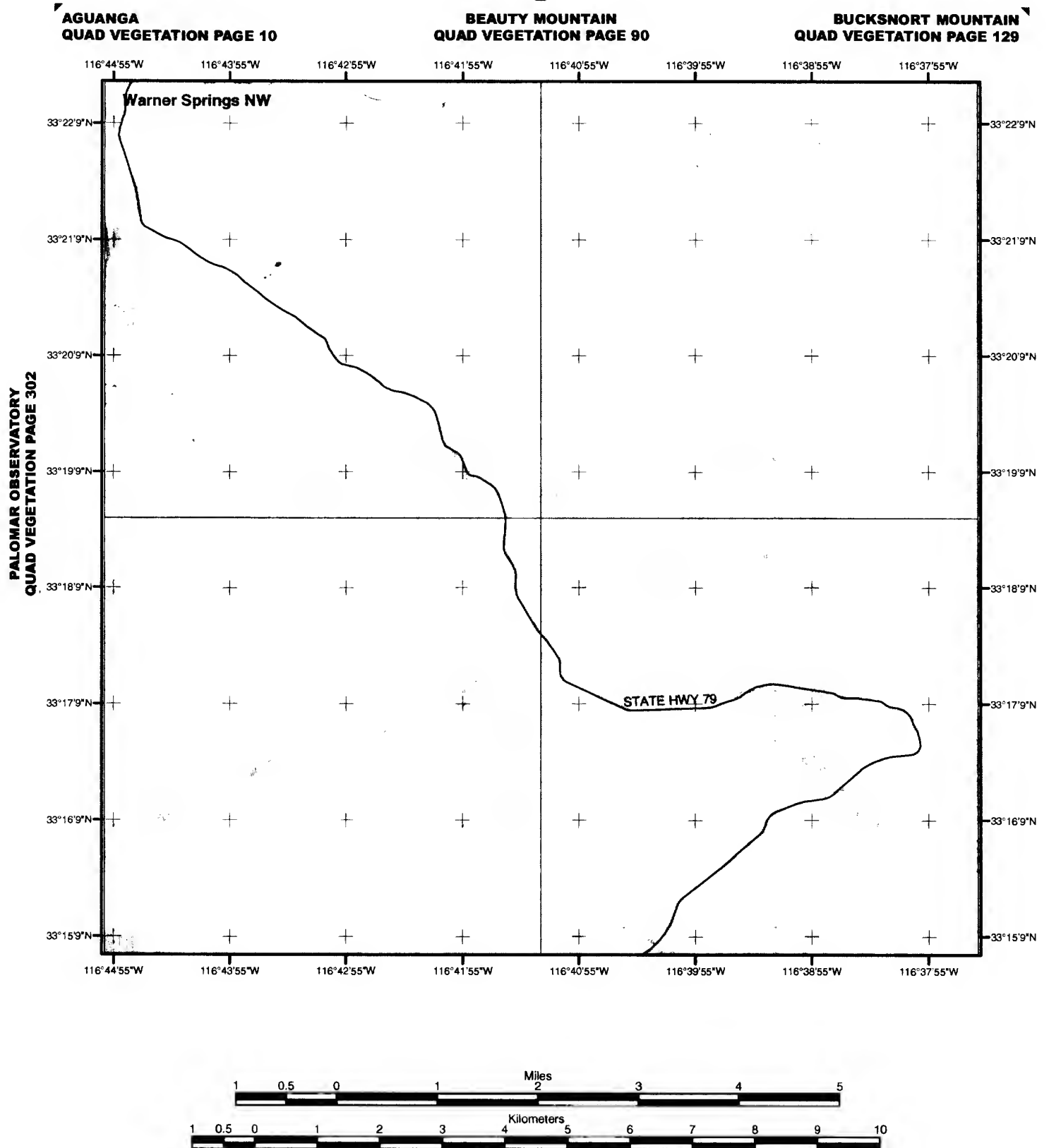


# Warner Springs North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

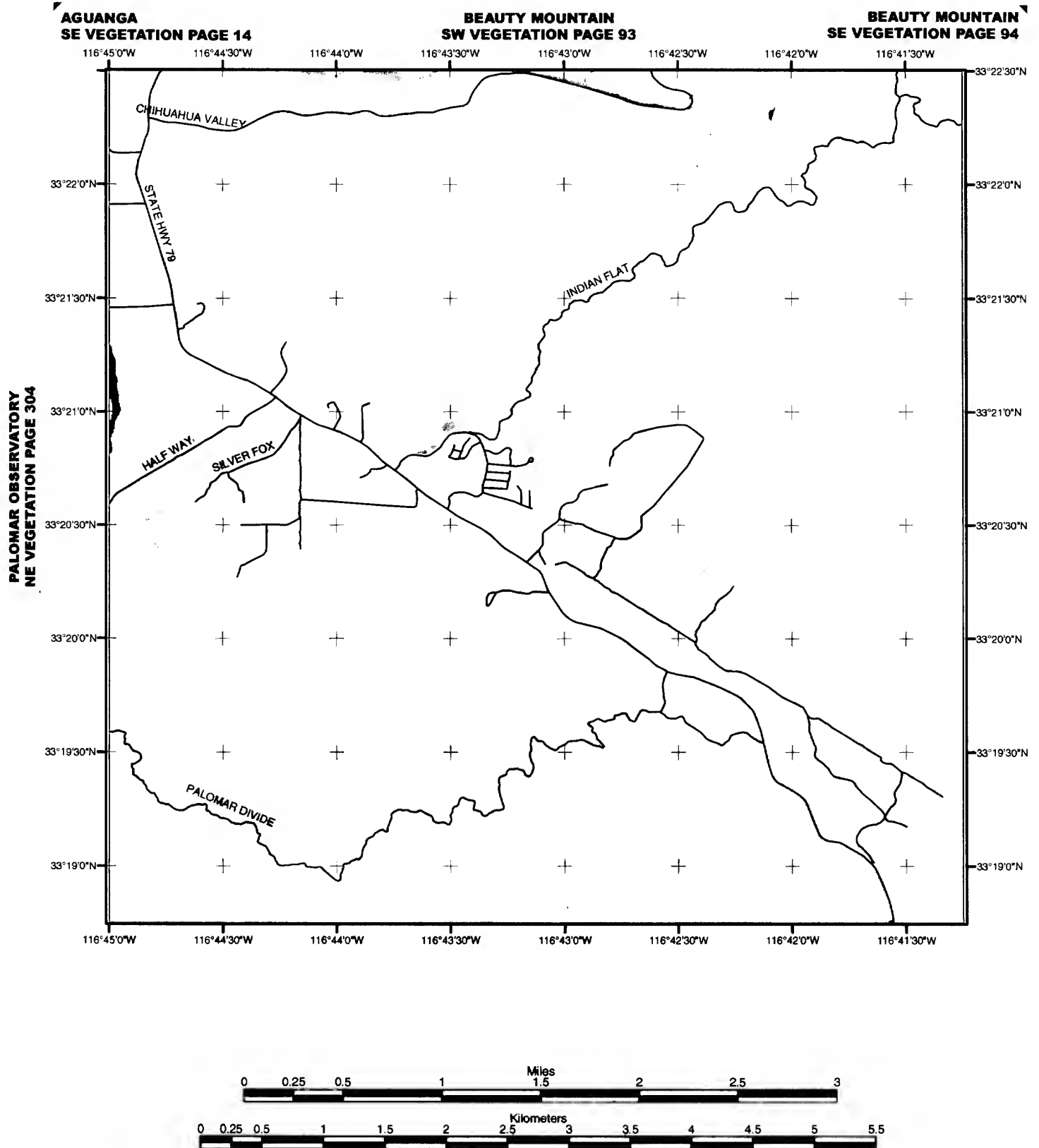


# Warner Springs Quadrangle

## Vegetation Species Association Units for Aquatic Resources

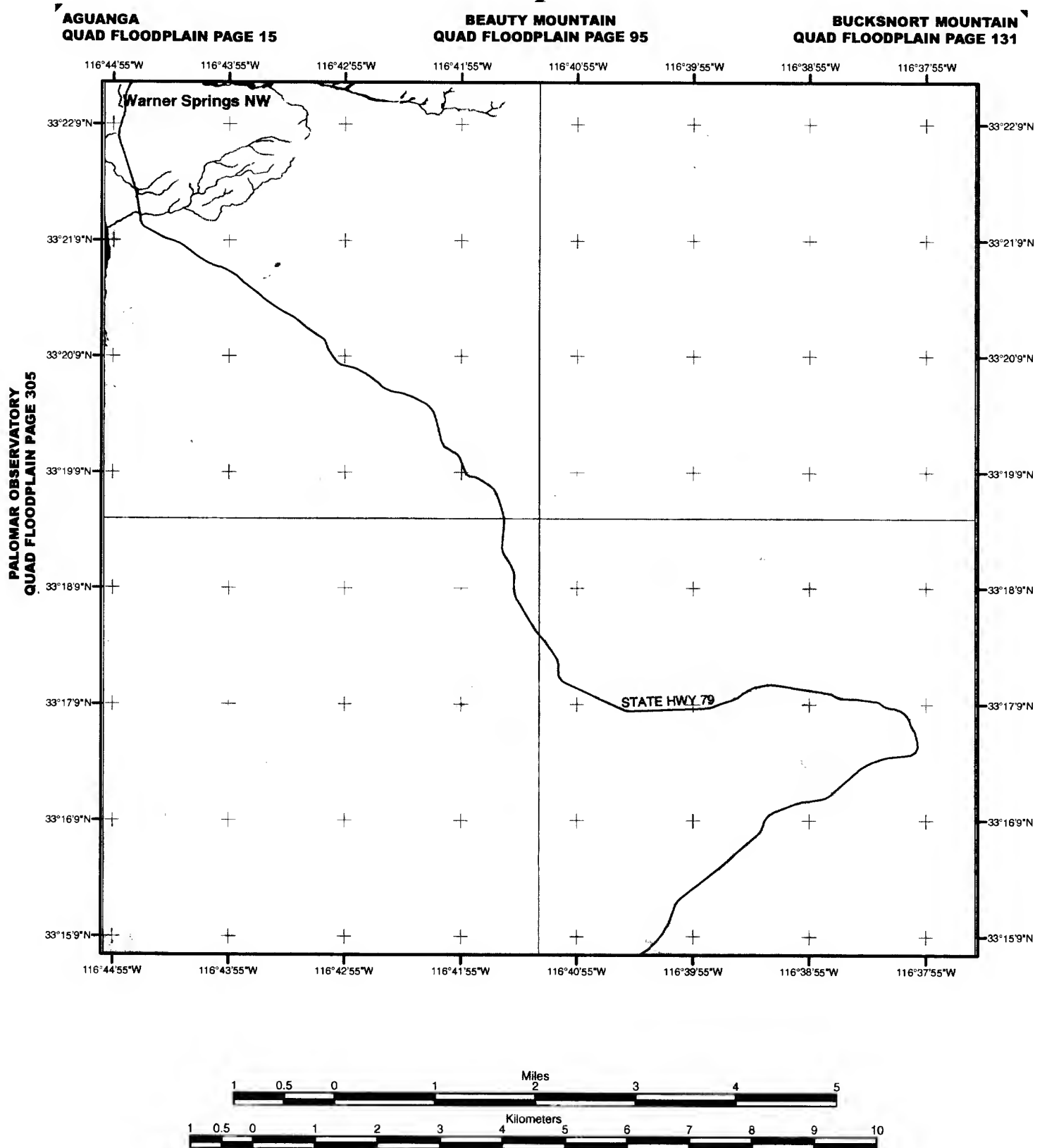


# Warner Springs North West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

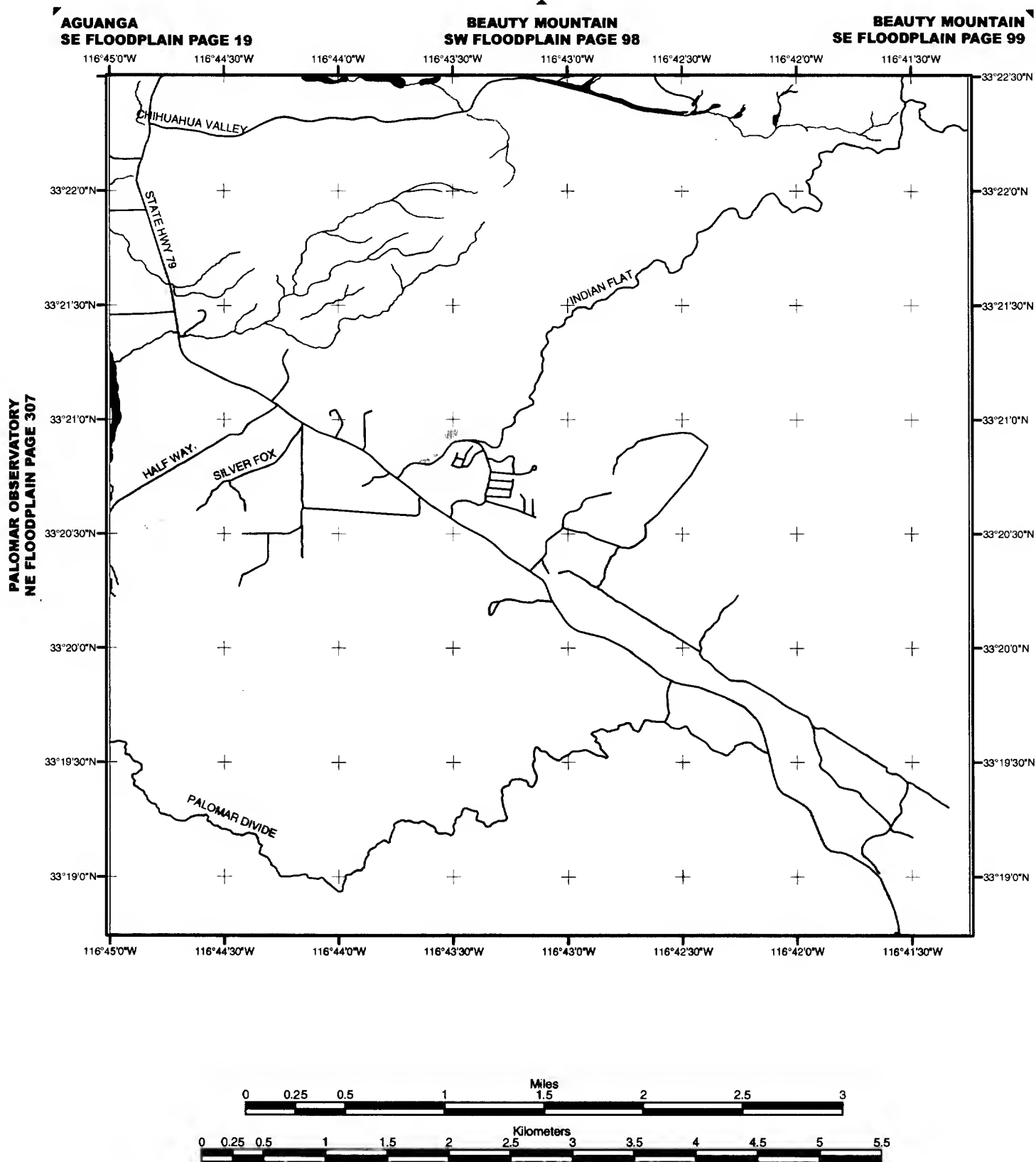


# Warner Springs Quadrangle

## Hydrogeomorphic Floodplain Units for Aquatic Resources

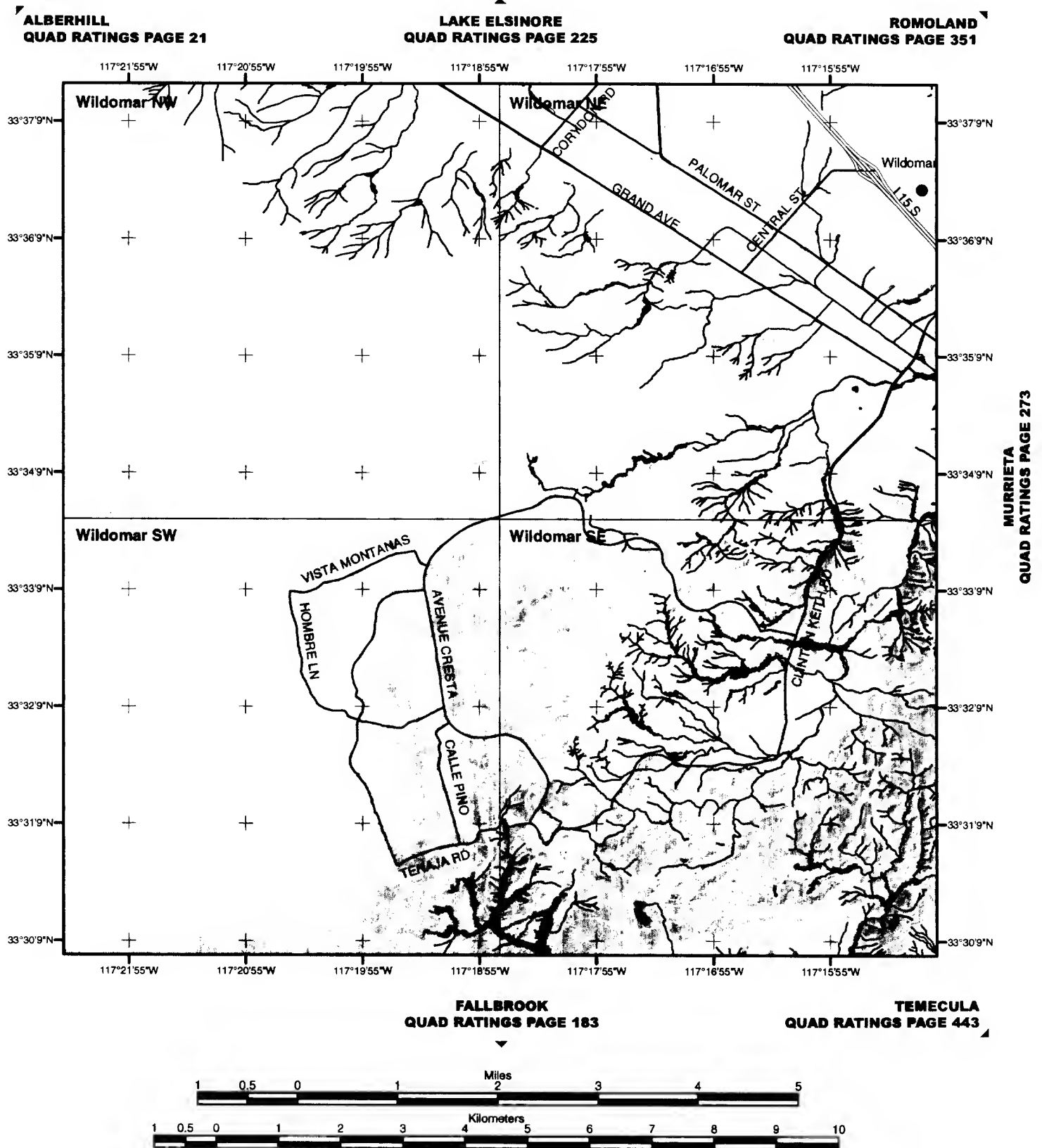


# Warner Springs North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

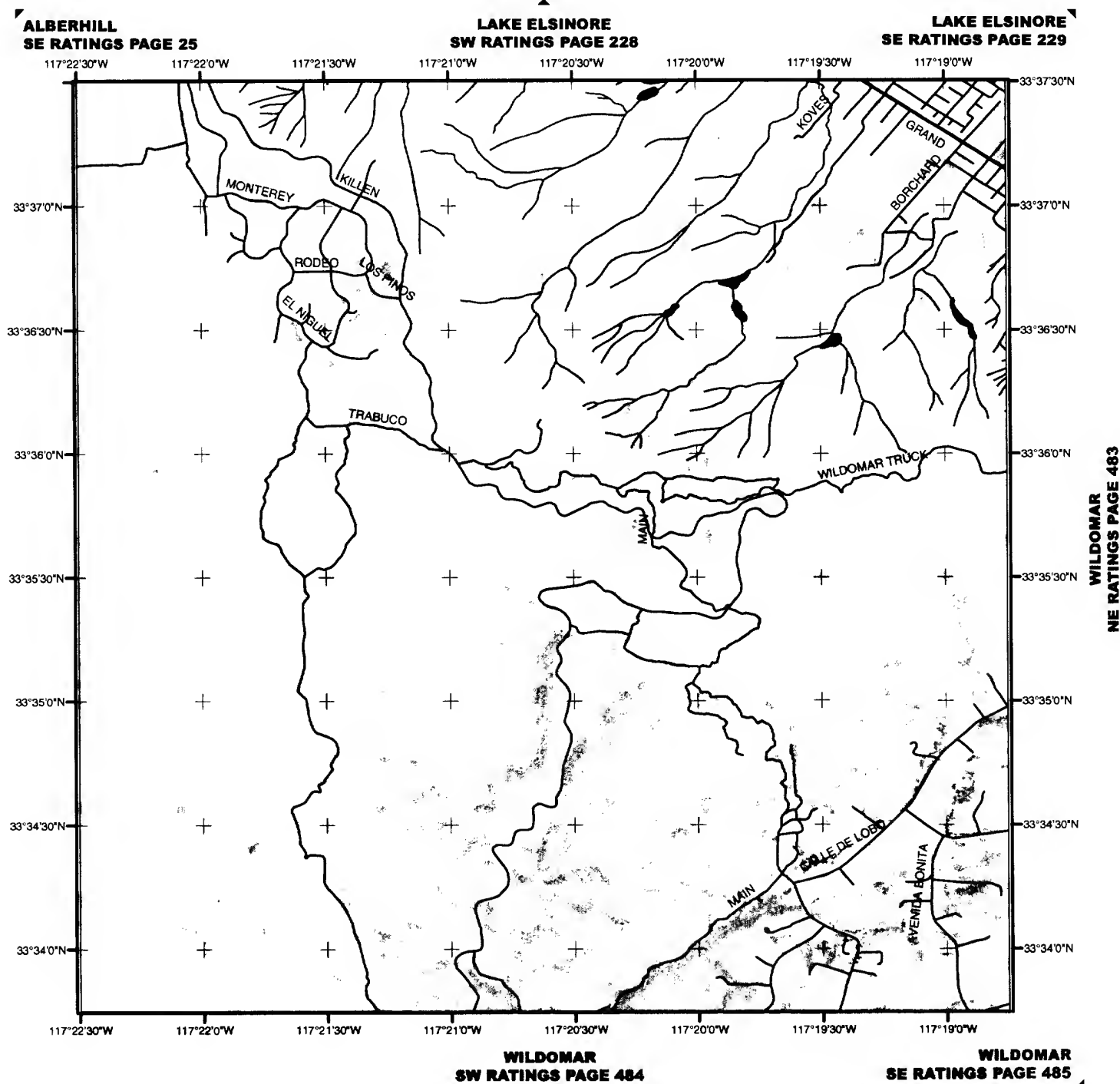


# Wildomar Quadrangle

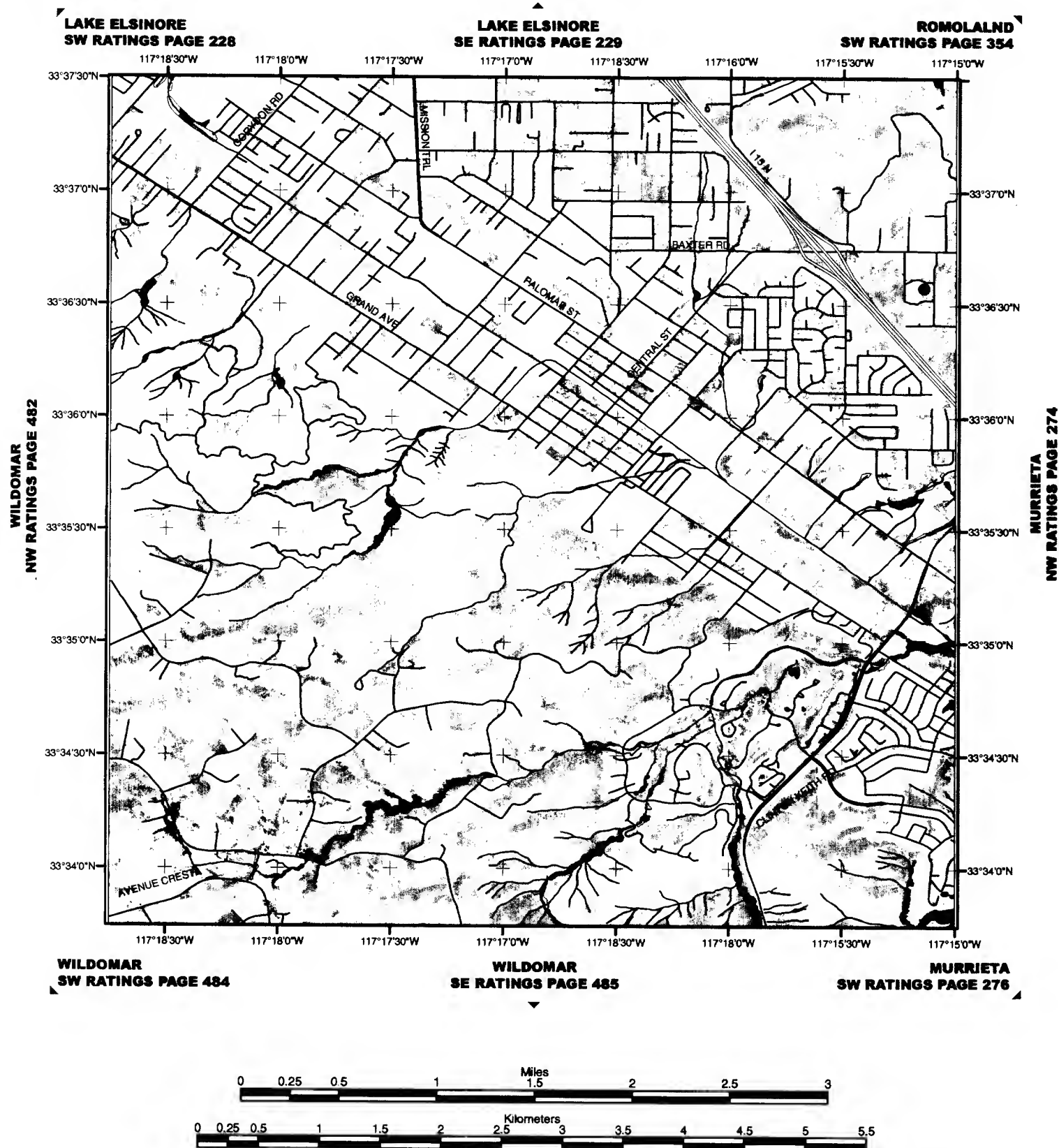
## Regulatory Probability Ratings for Aquatic Resources



# Wildomar North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

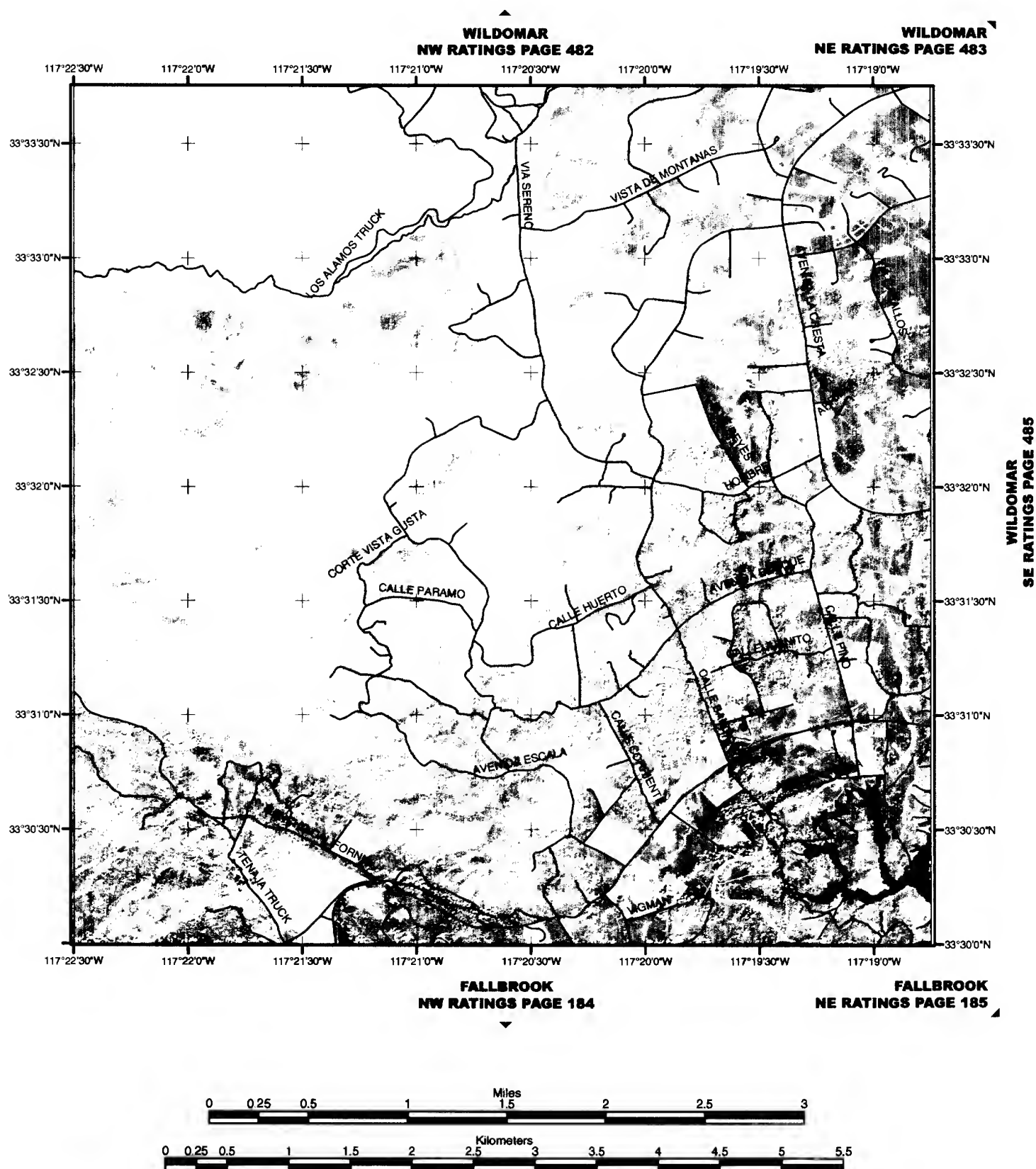


# Wildomar North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

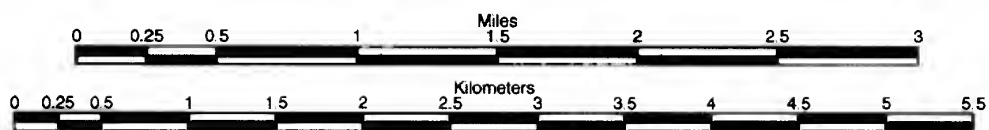
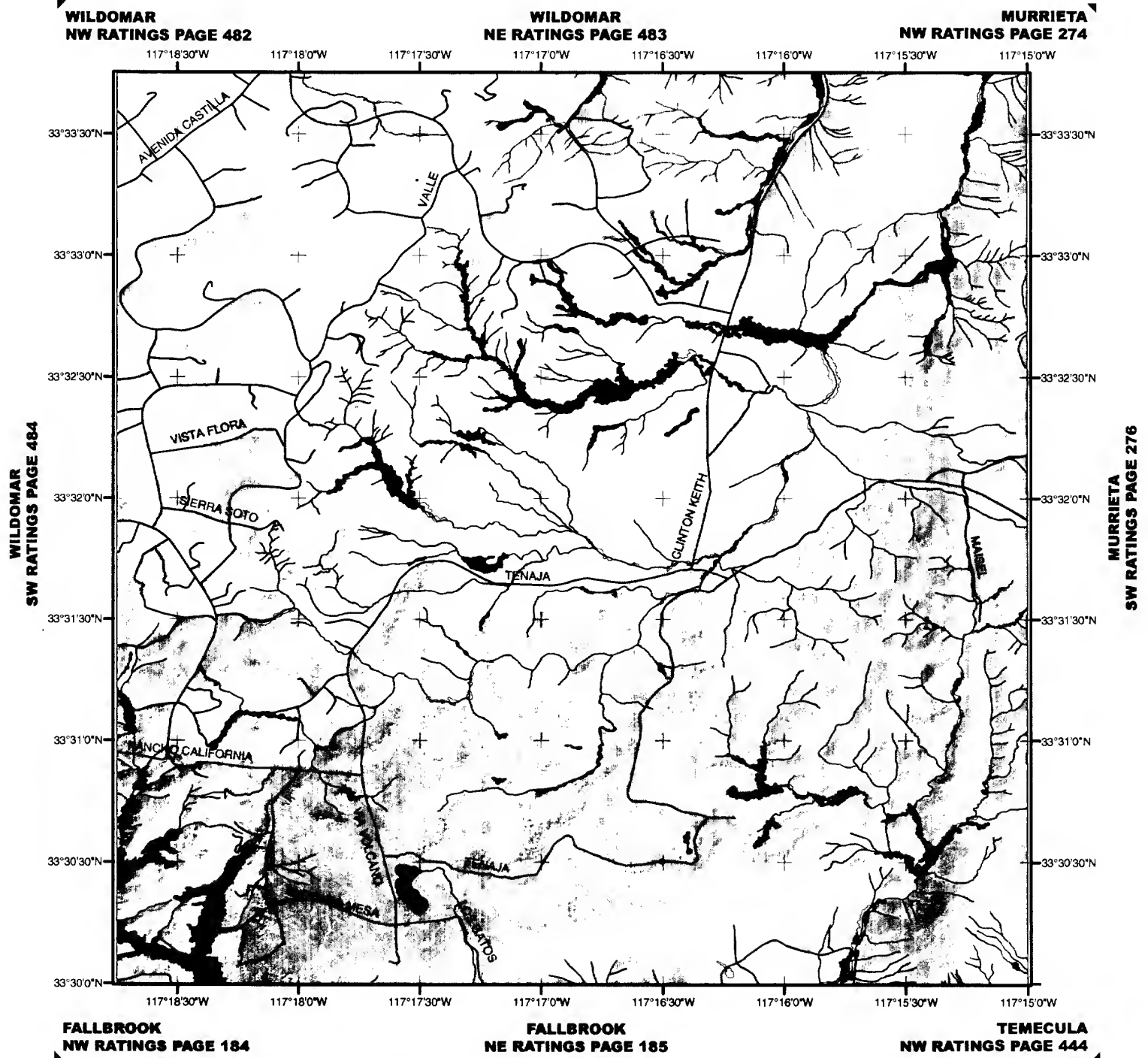




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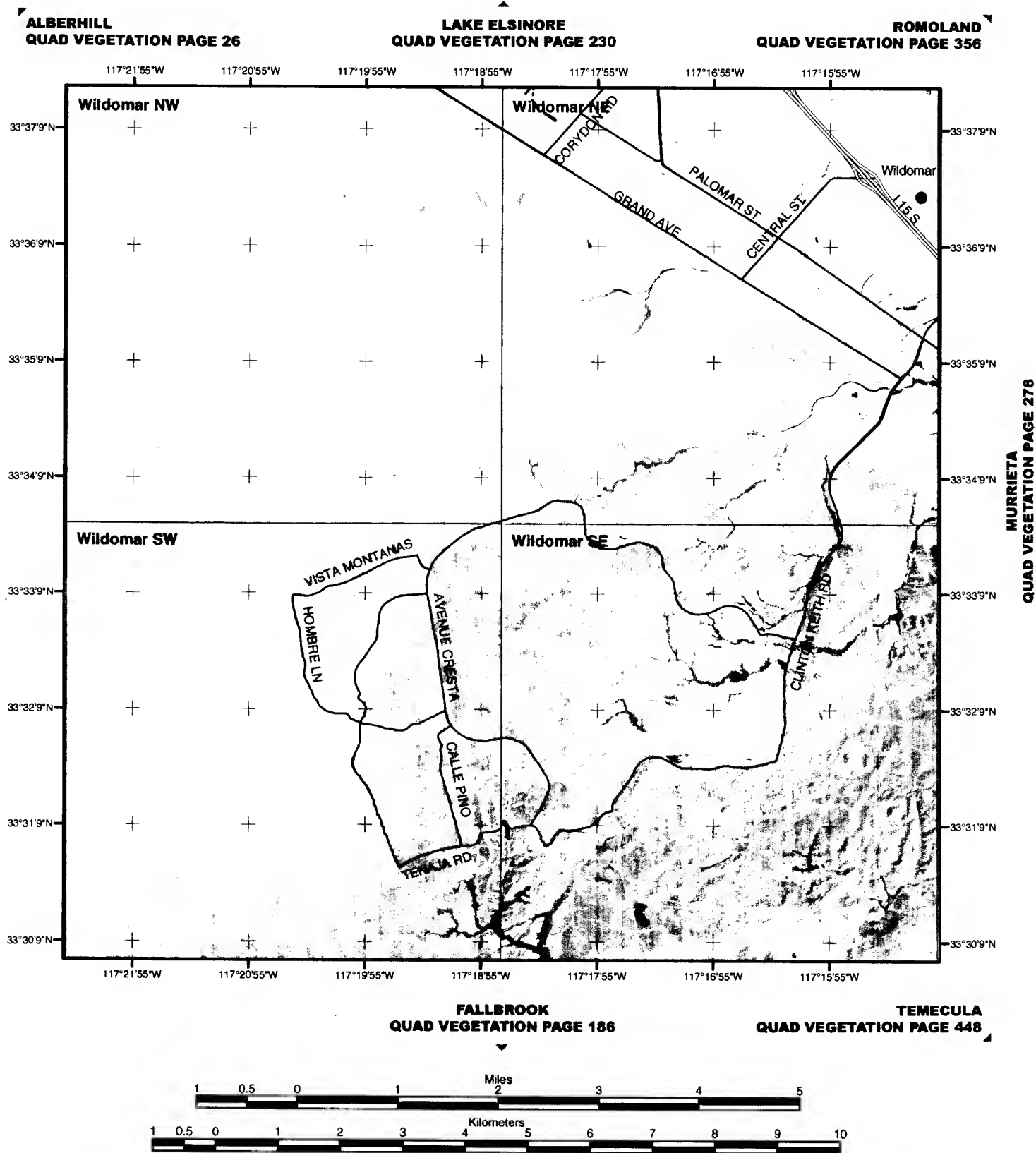


# Wildomar South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

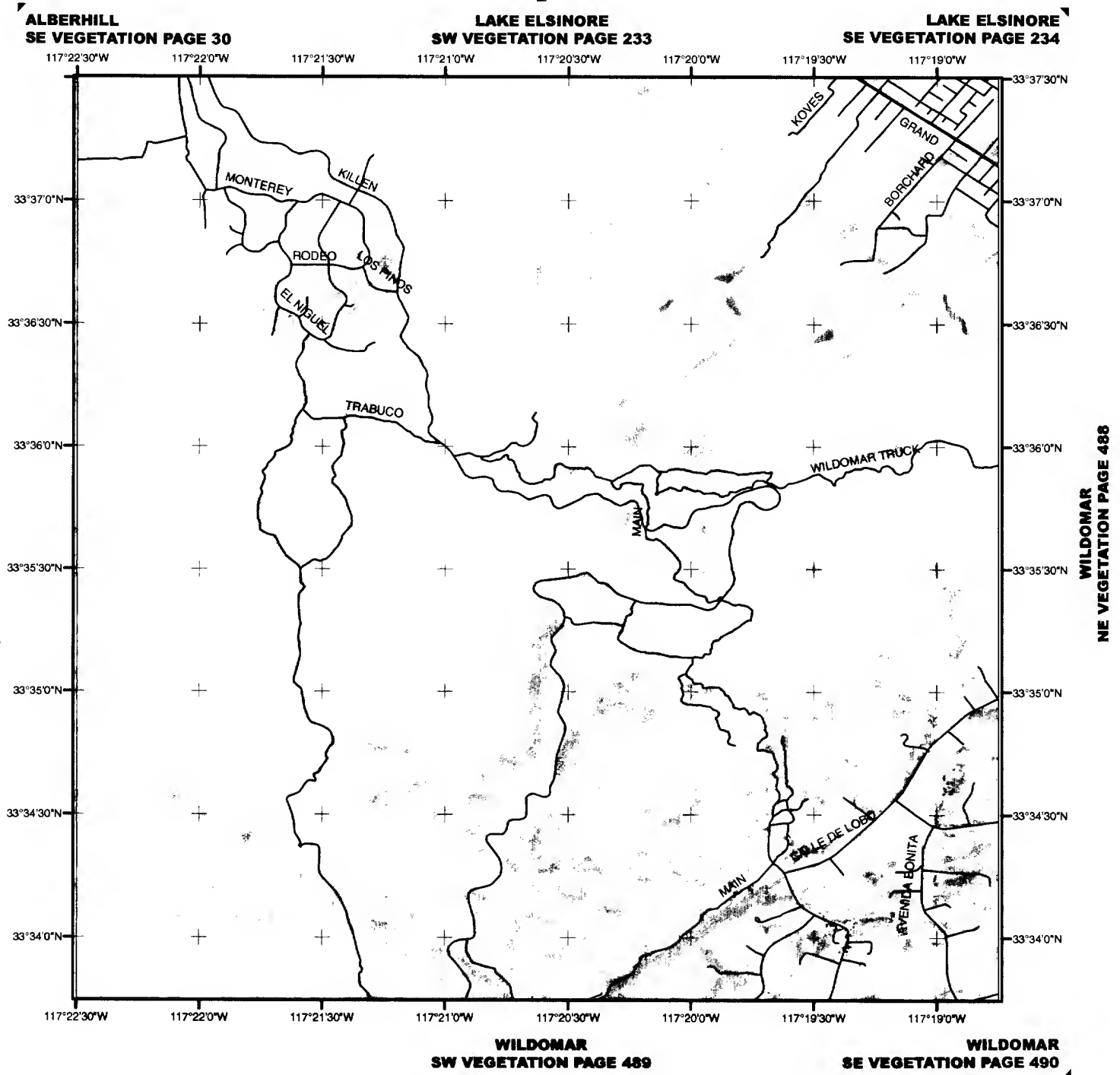


# Wildomar Quadrangle

## Vegetation Species Association Units for Aquatic Resources

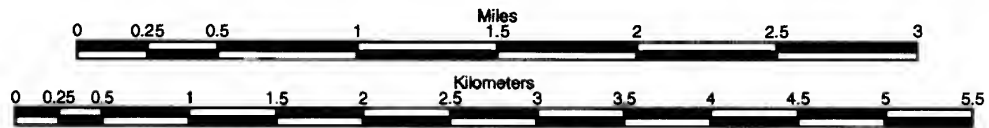
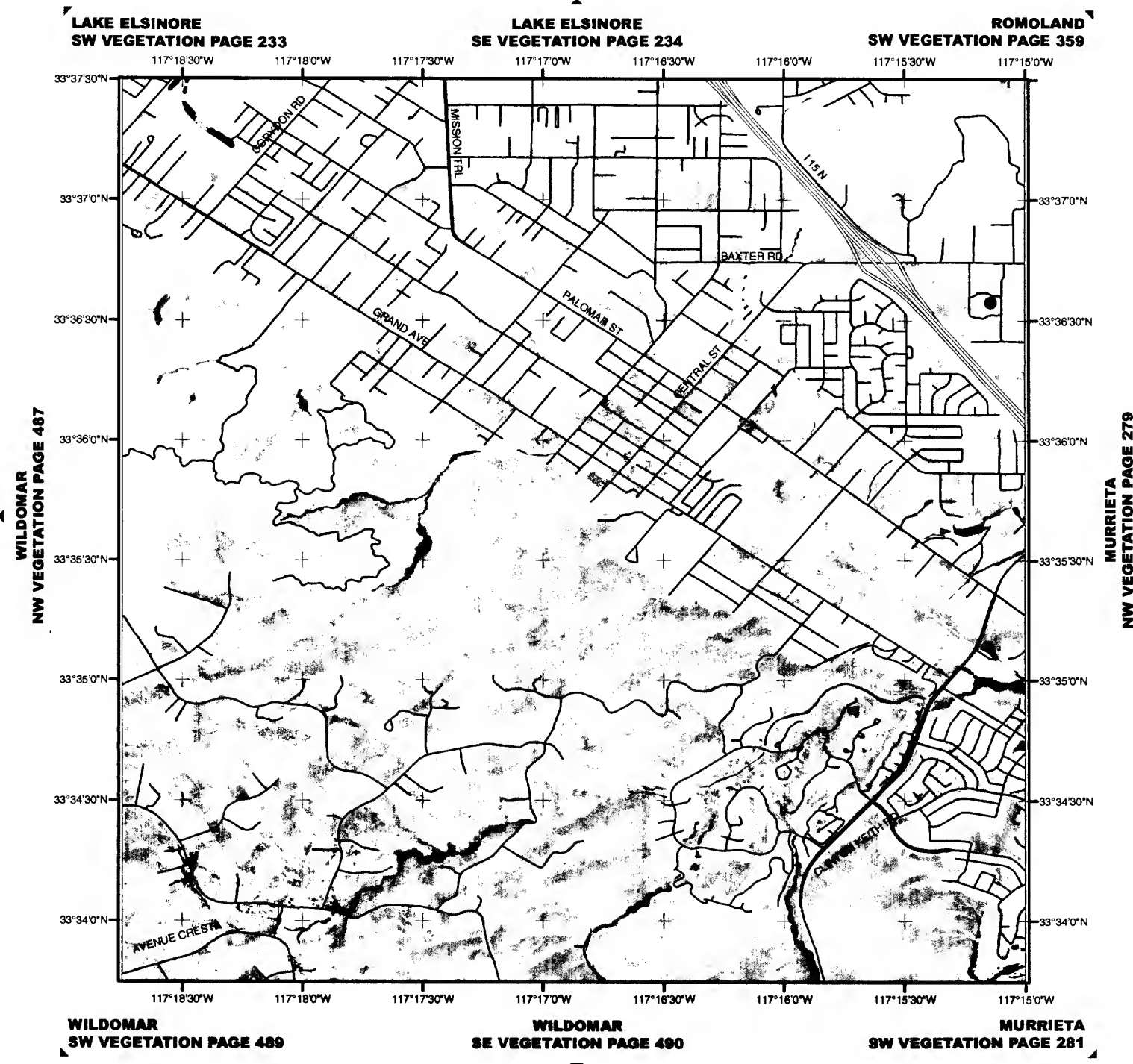


# Wildomar North West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

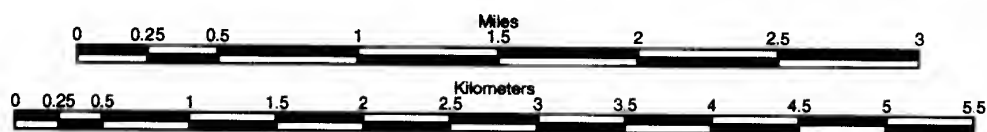
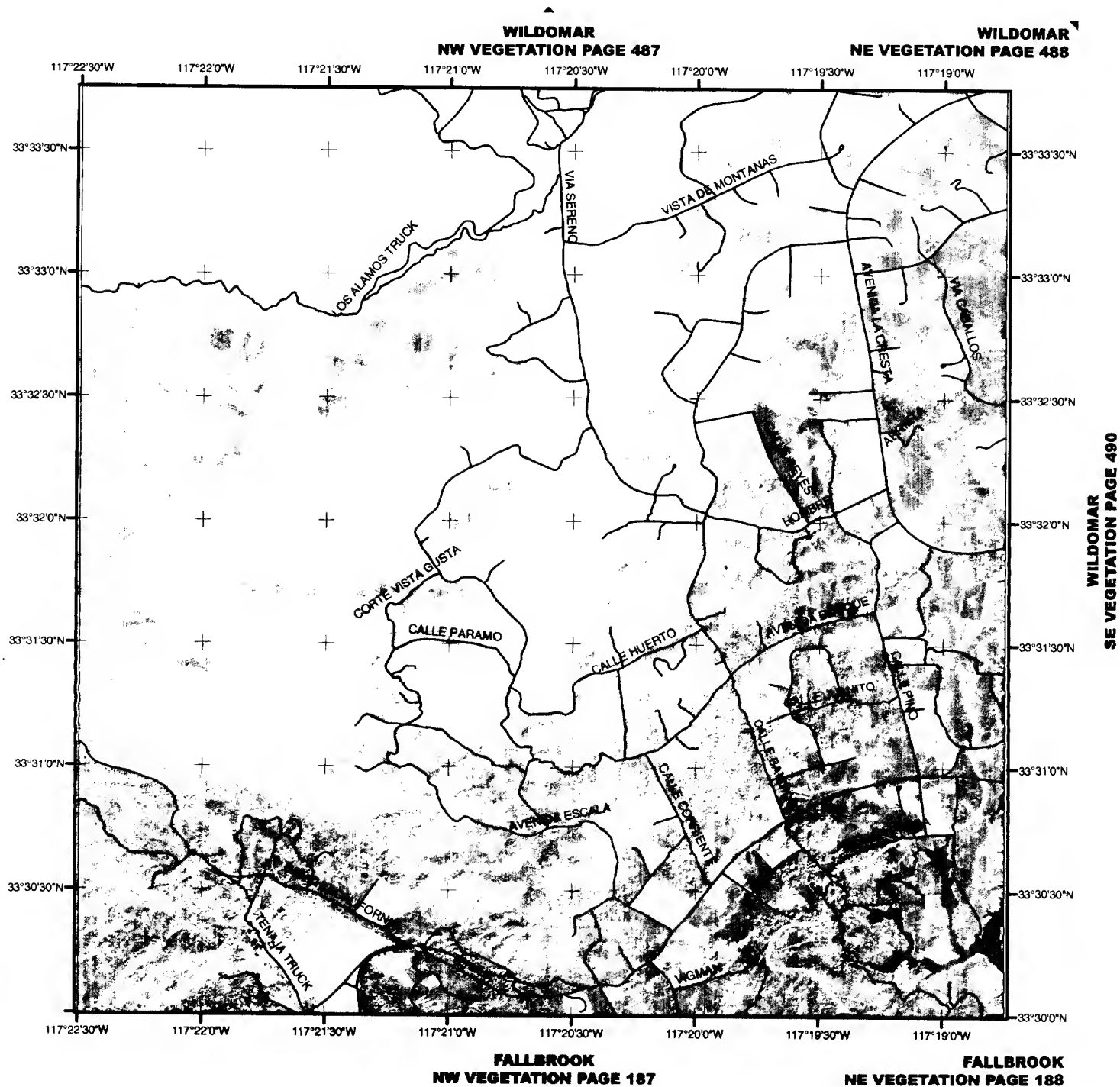


# Wildomar North East Quarter-Quadrangle

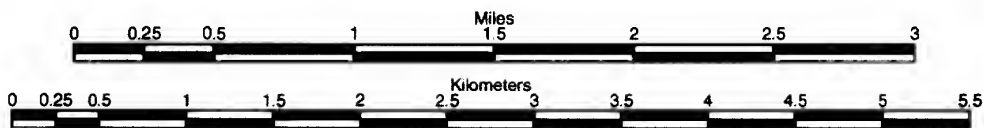
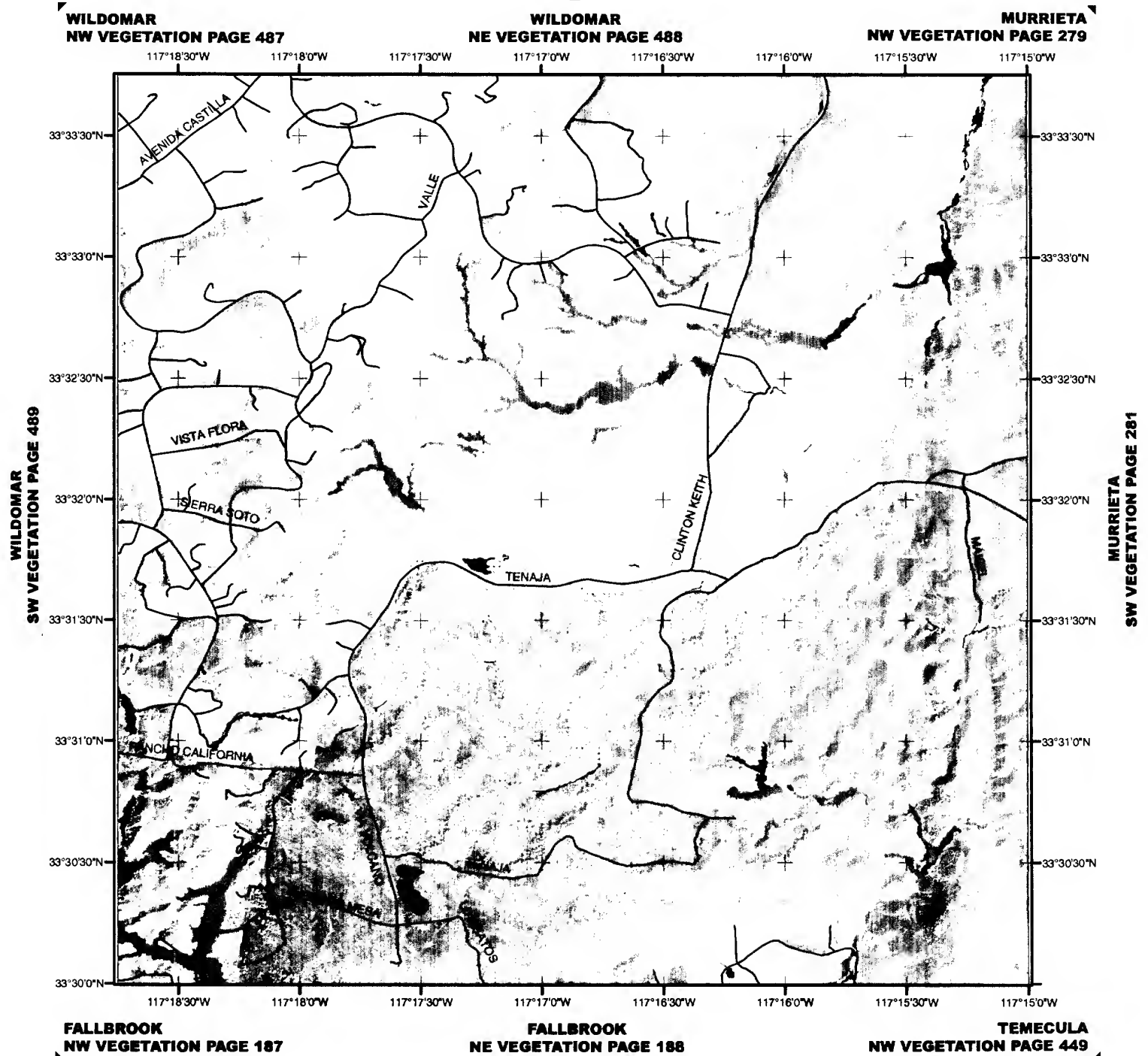
## Vegetation Species Association Units for Aquatic Resources



**Wildomar South West Quarter-Quadrangle  
Vegetation Species Association Units for Aquatic Resources**



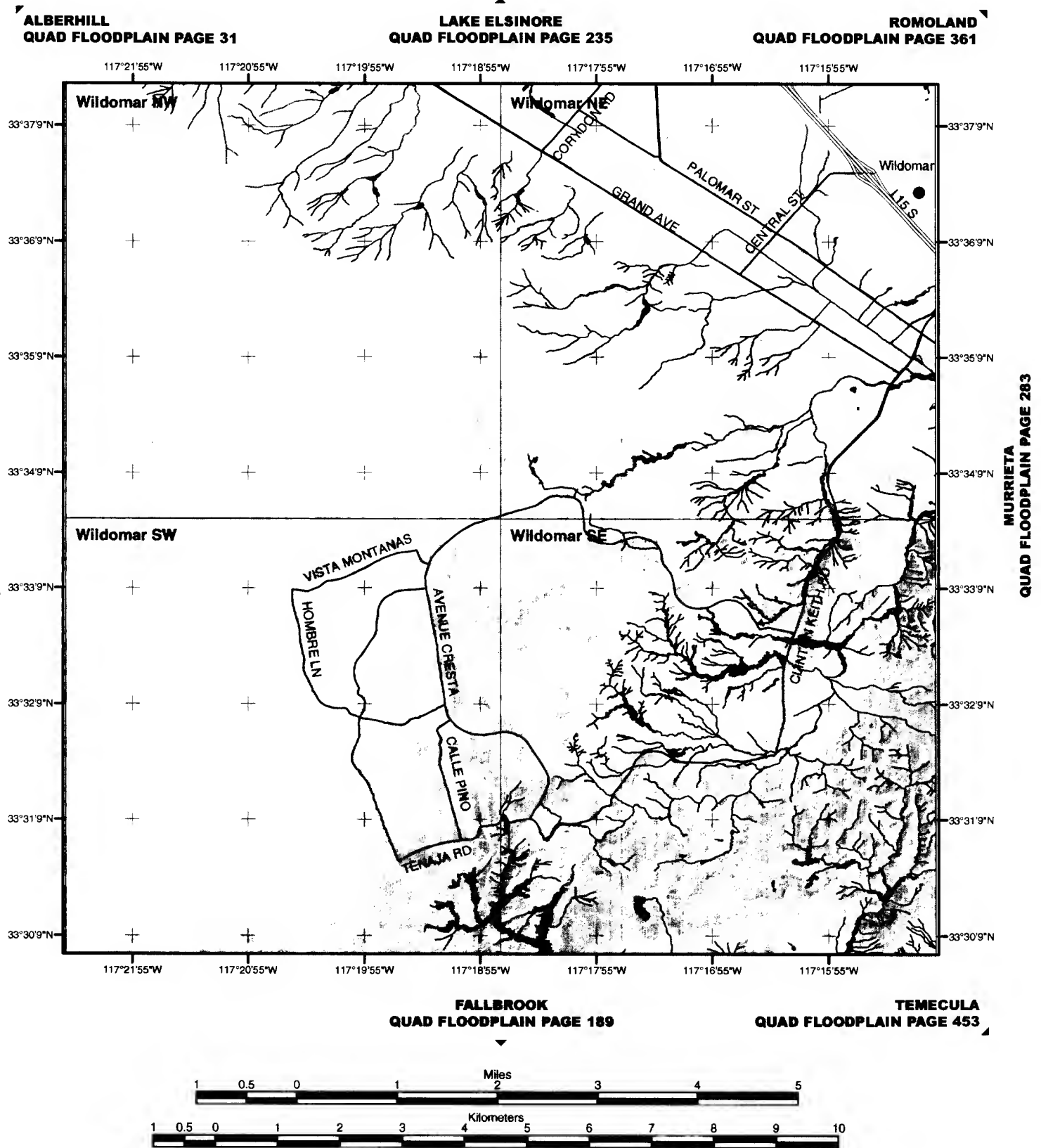
# Wildomar South East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources





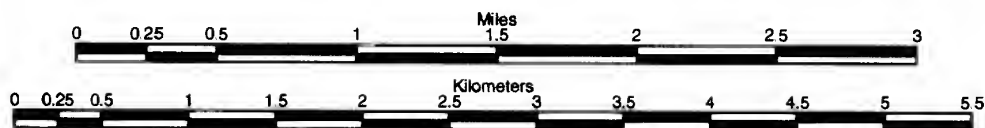
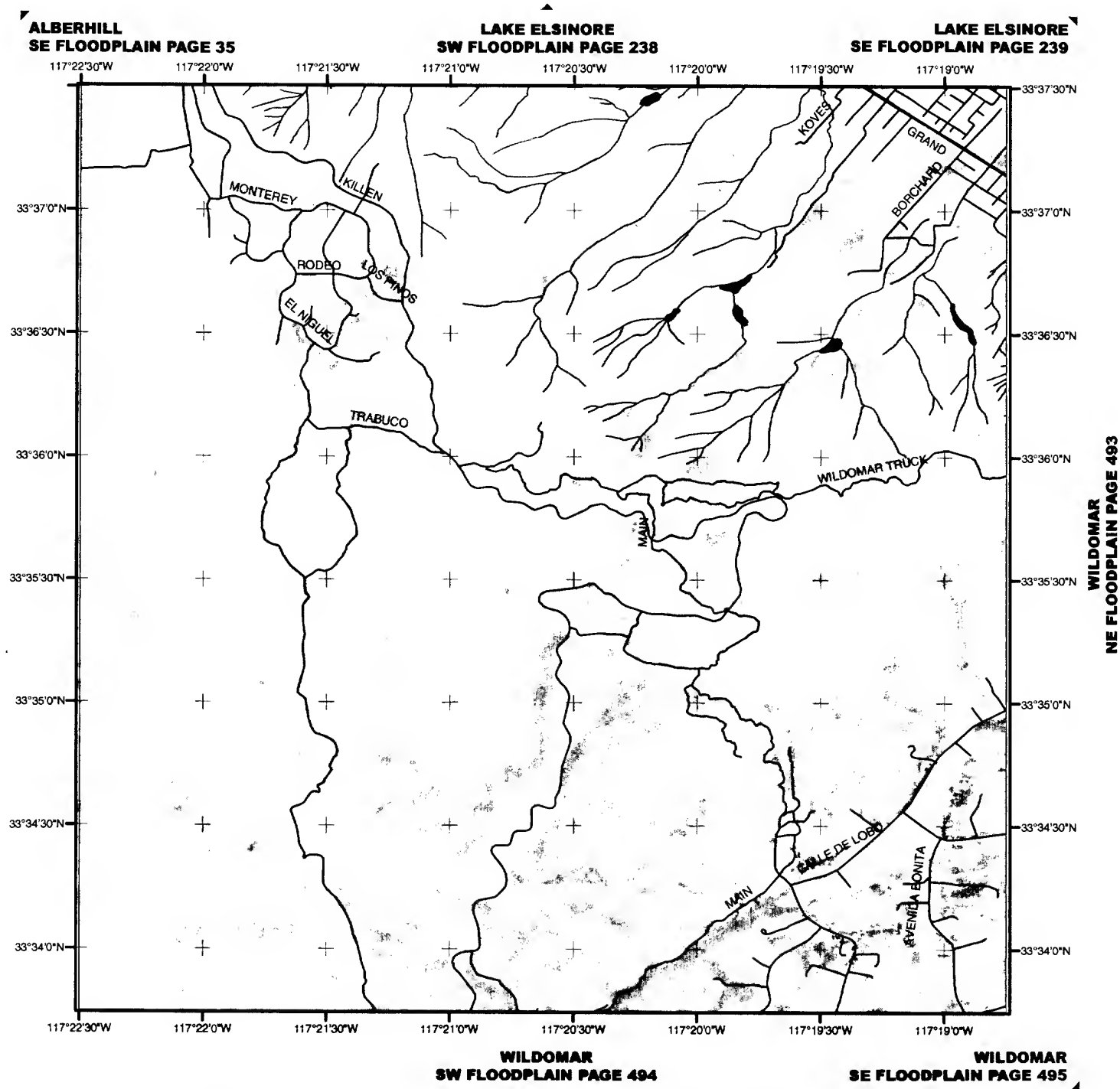
# Wildomar Quadrangle

## Hydrogeomorphic Floodplain Units for Aquatic Resources

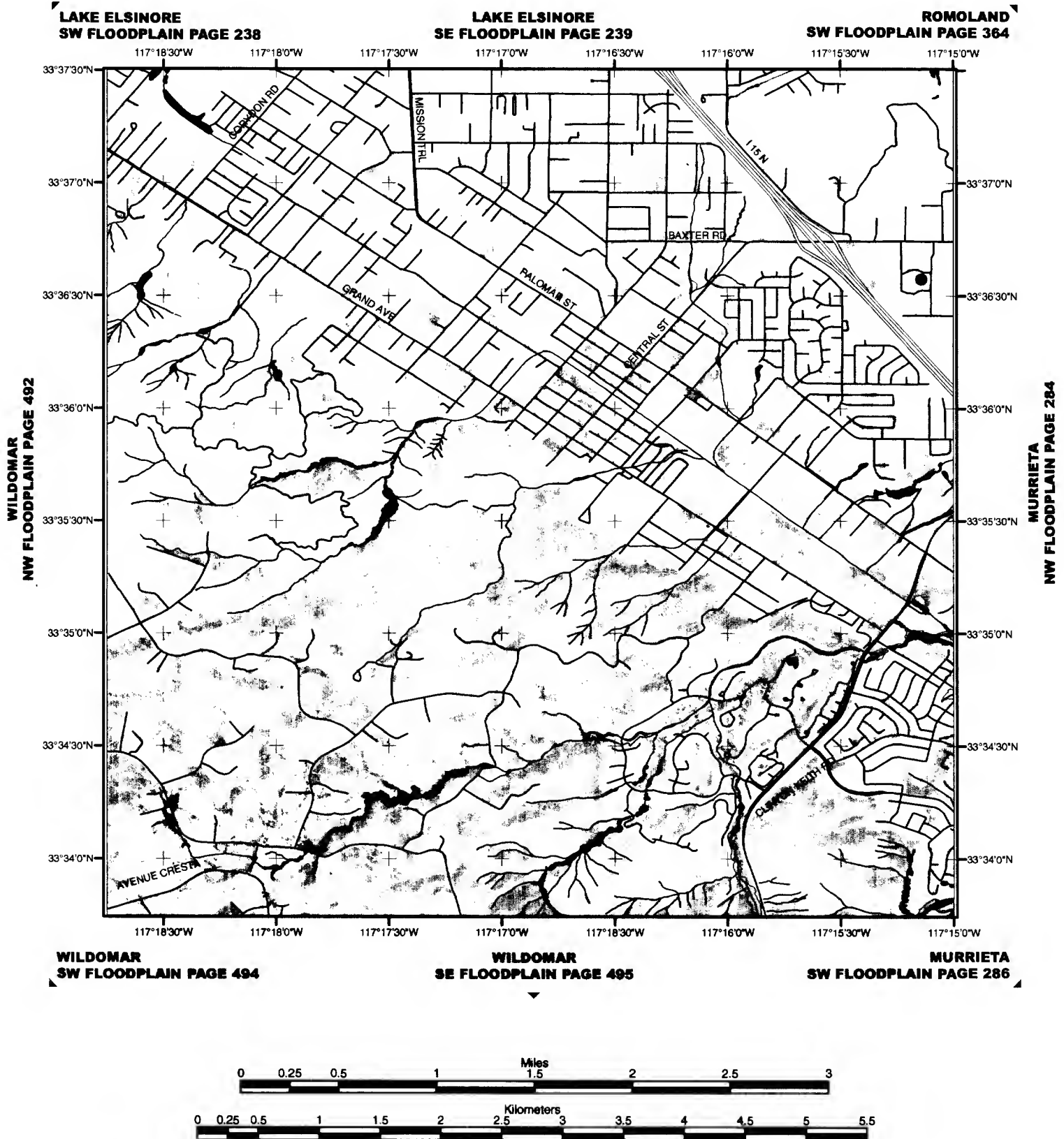




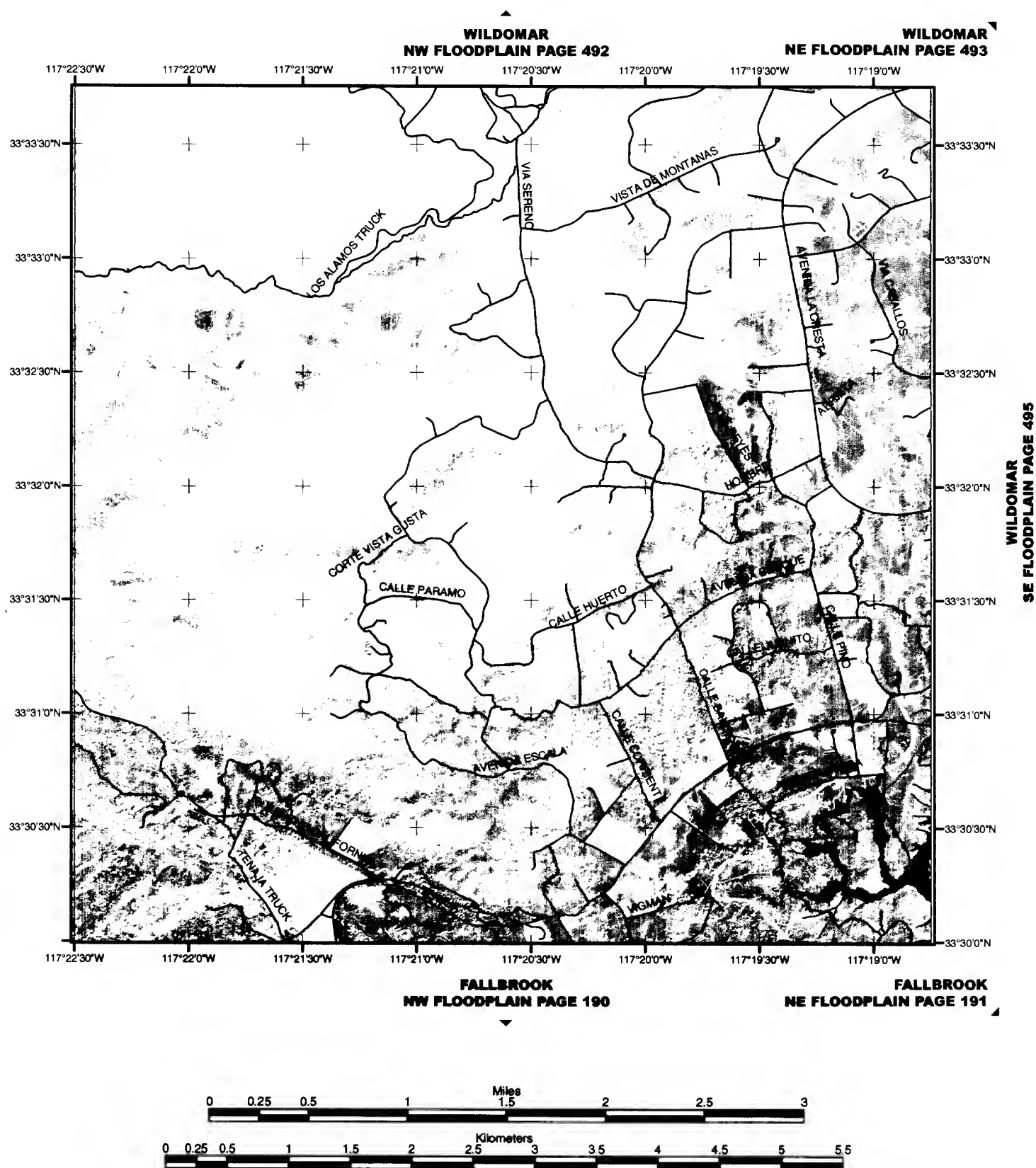
# Wildomar North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



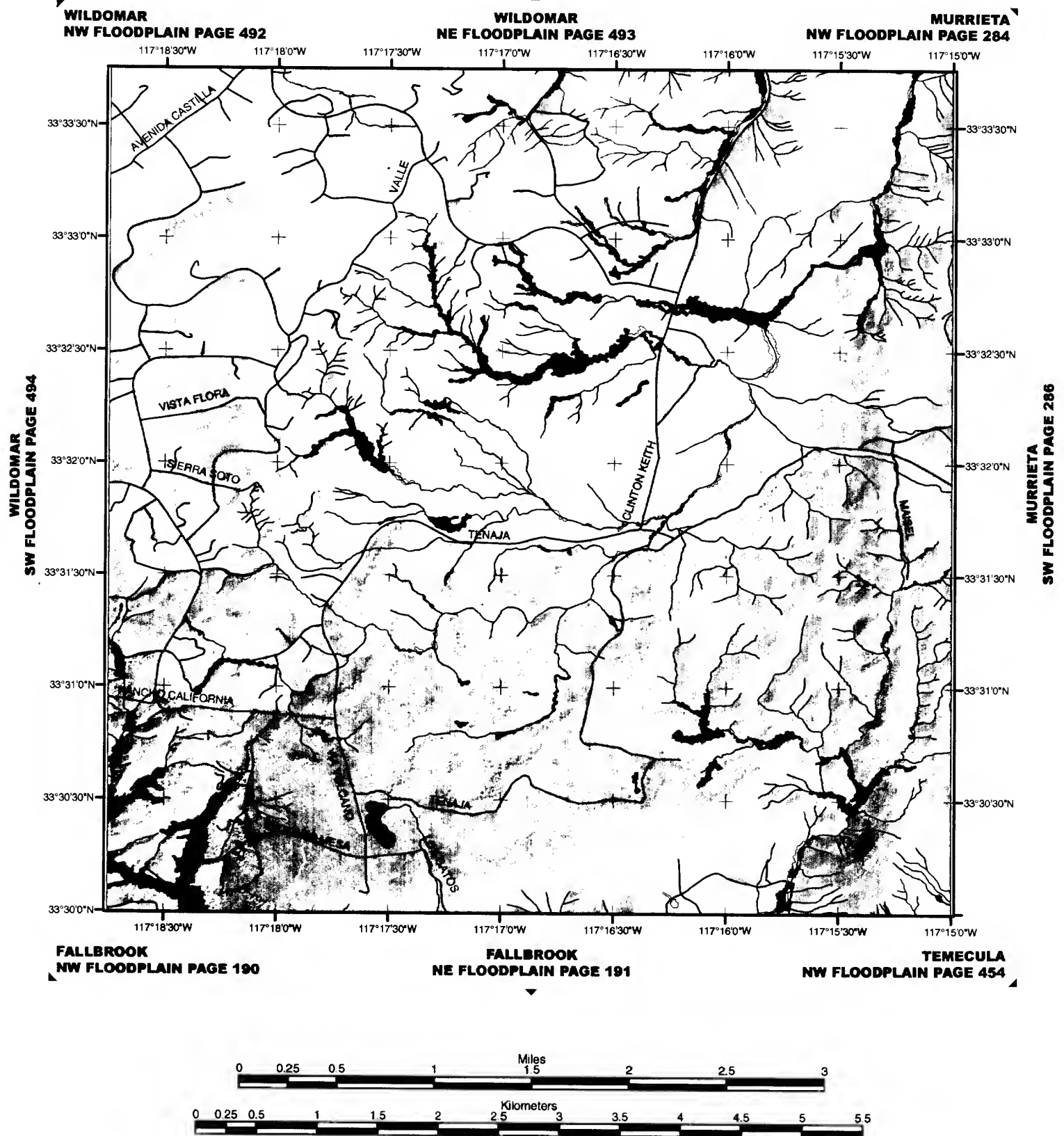
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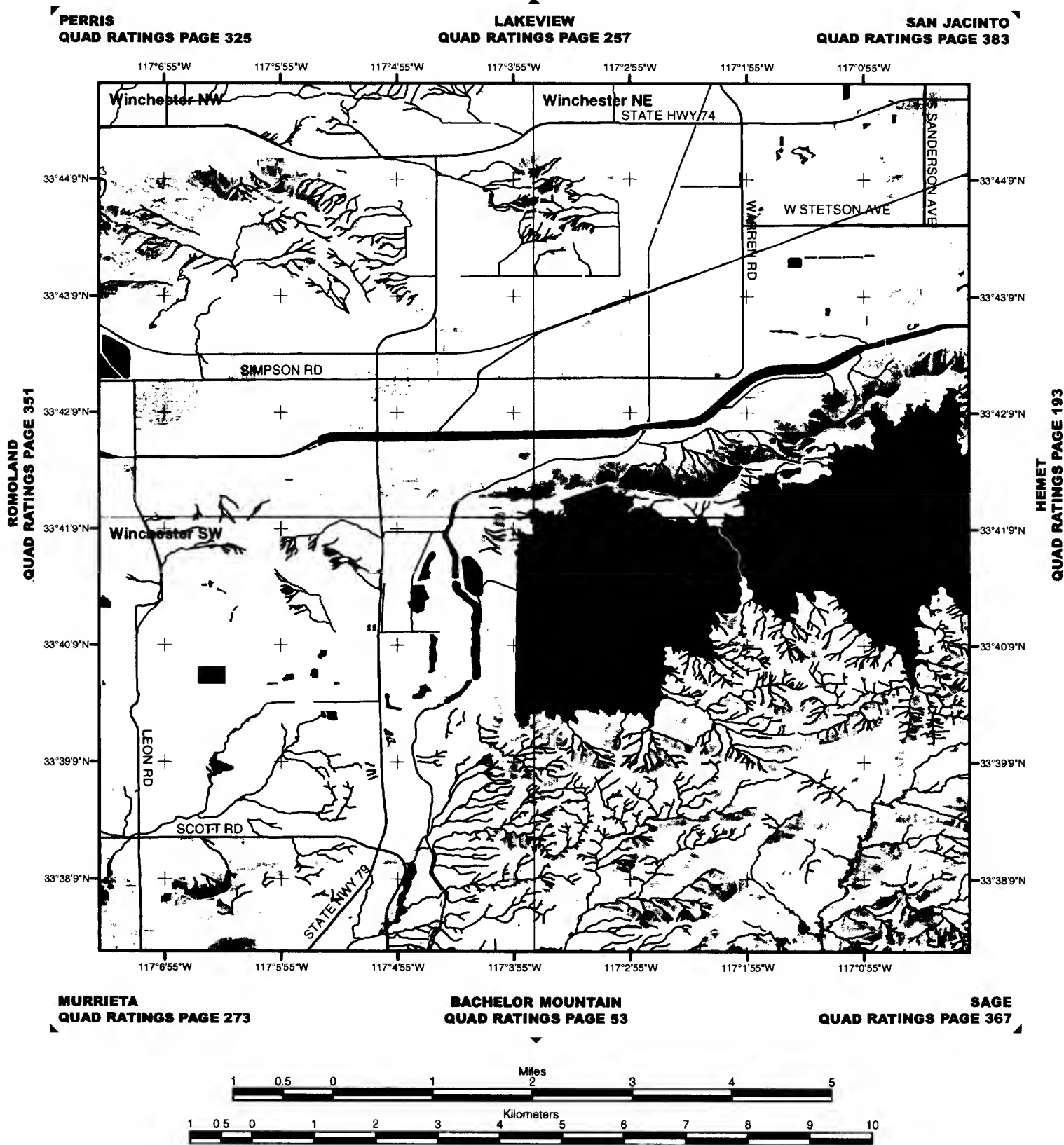
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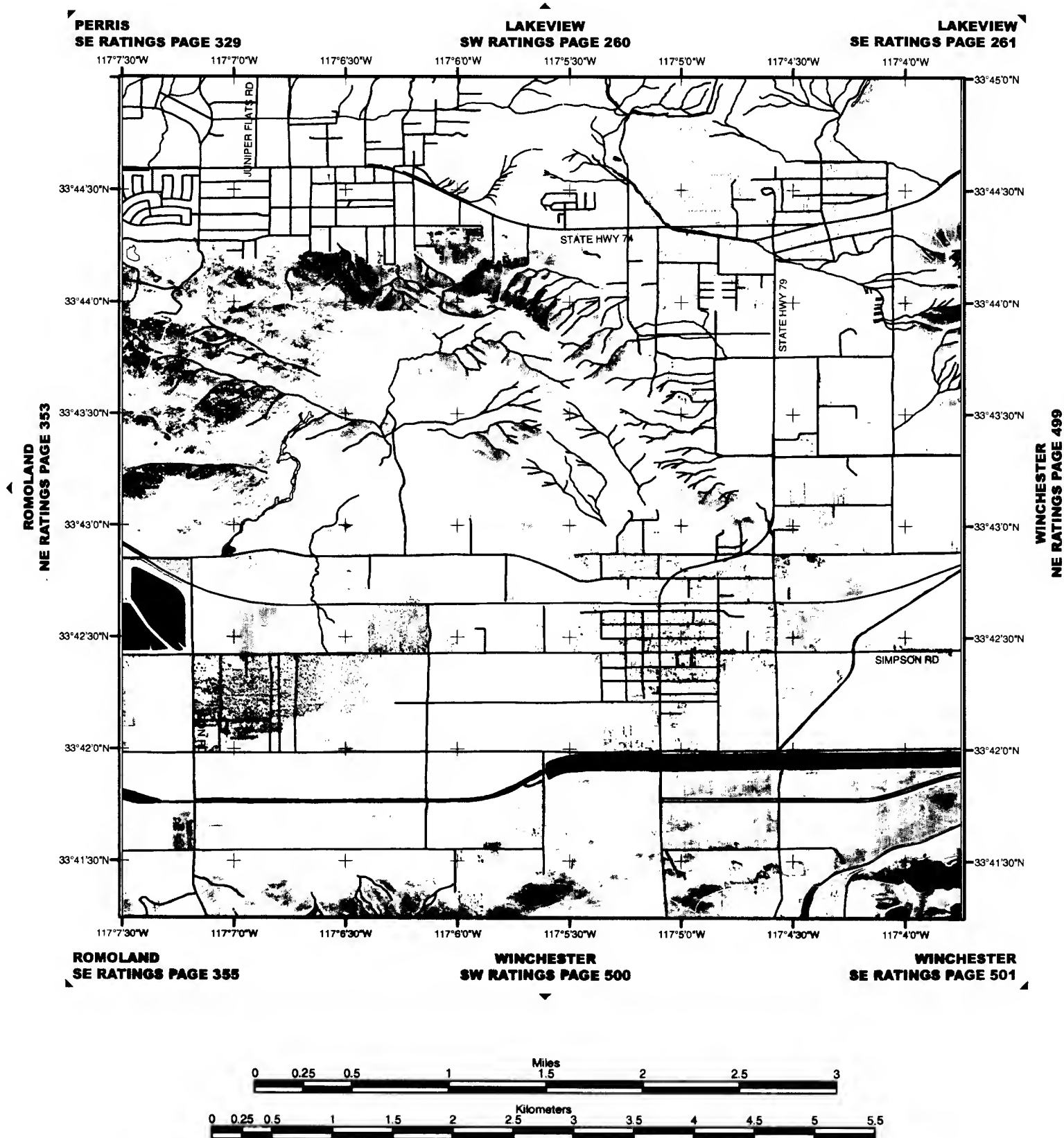


# Winchester Quadrangle

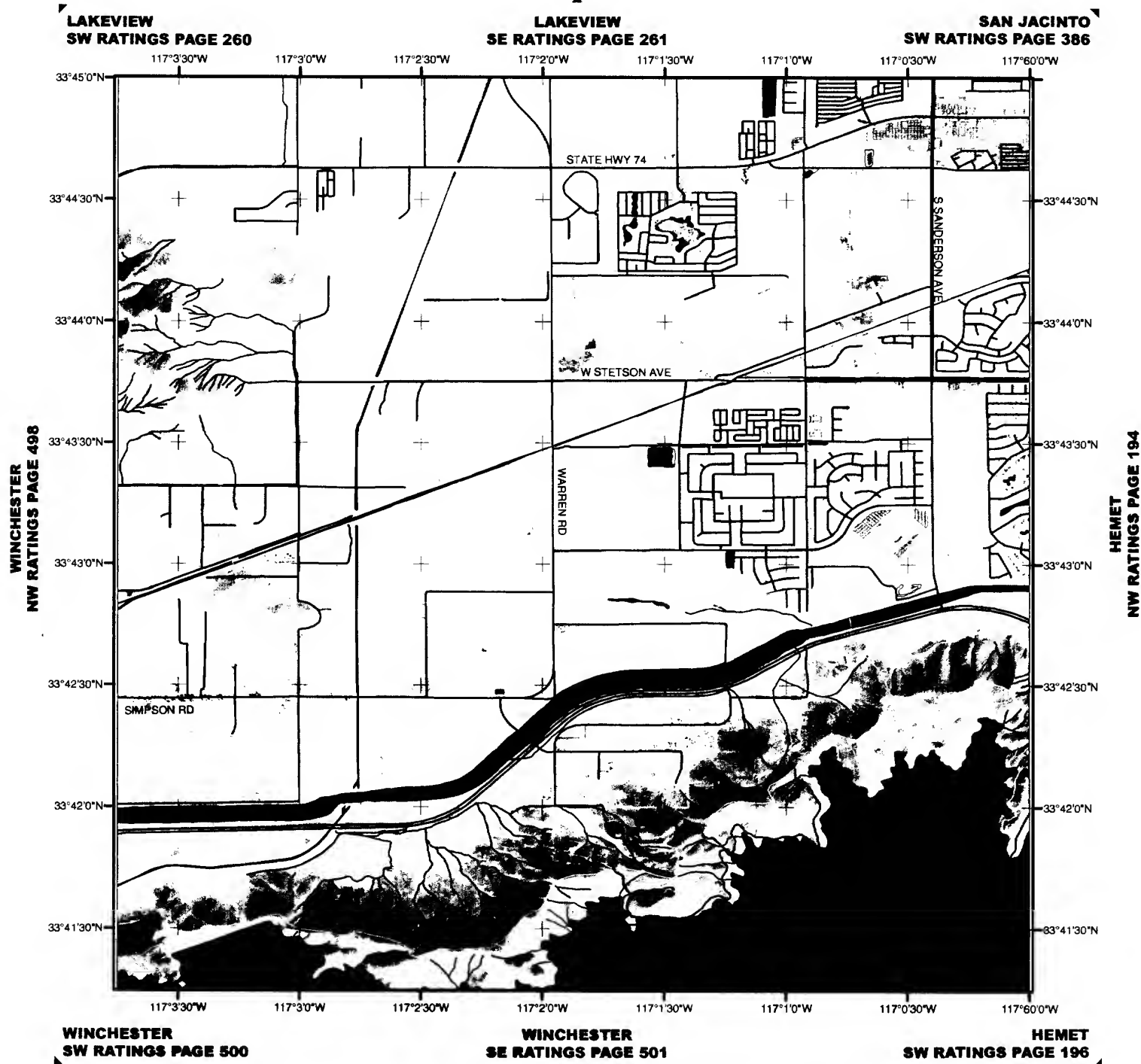
## Regulatory Probability Ratings for Aquatic Resources



# Winchester North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

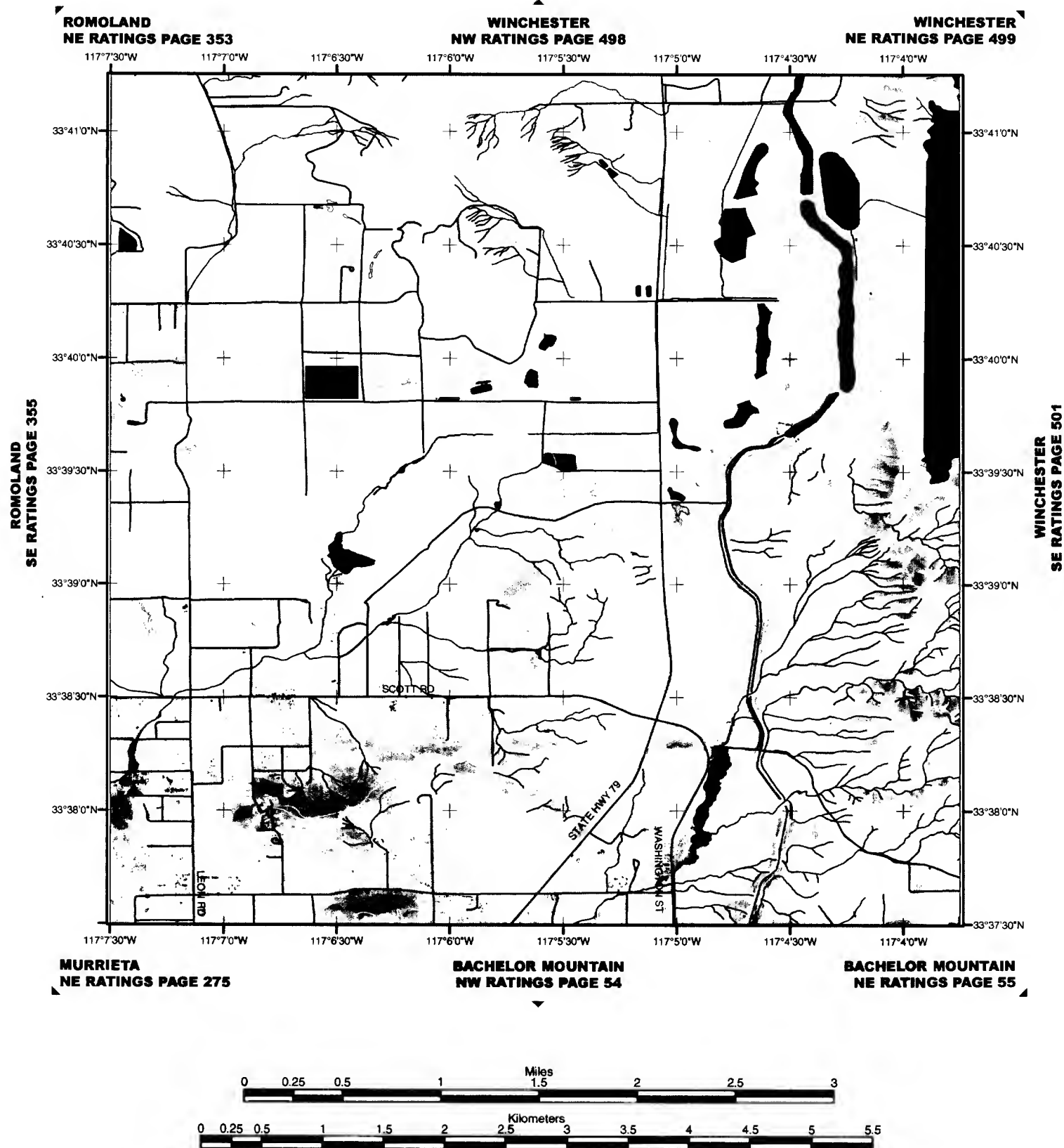


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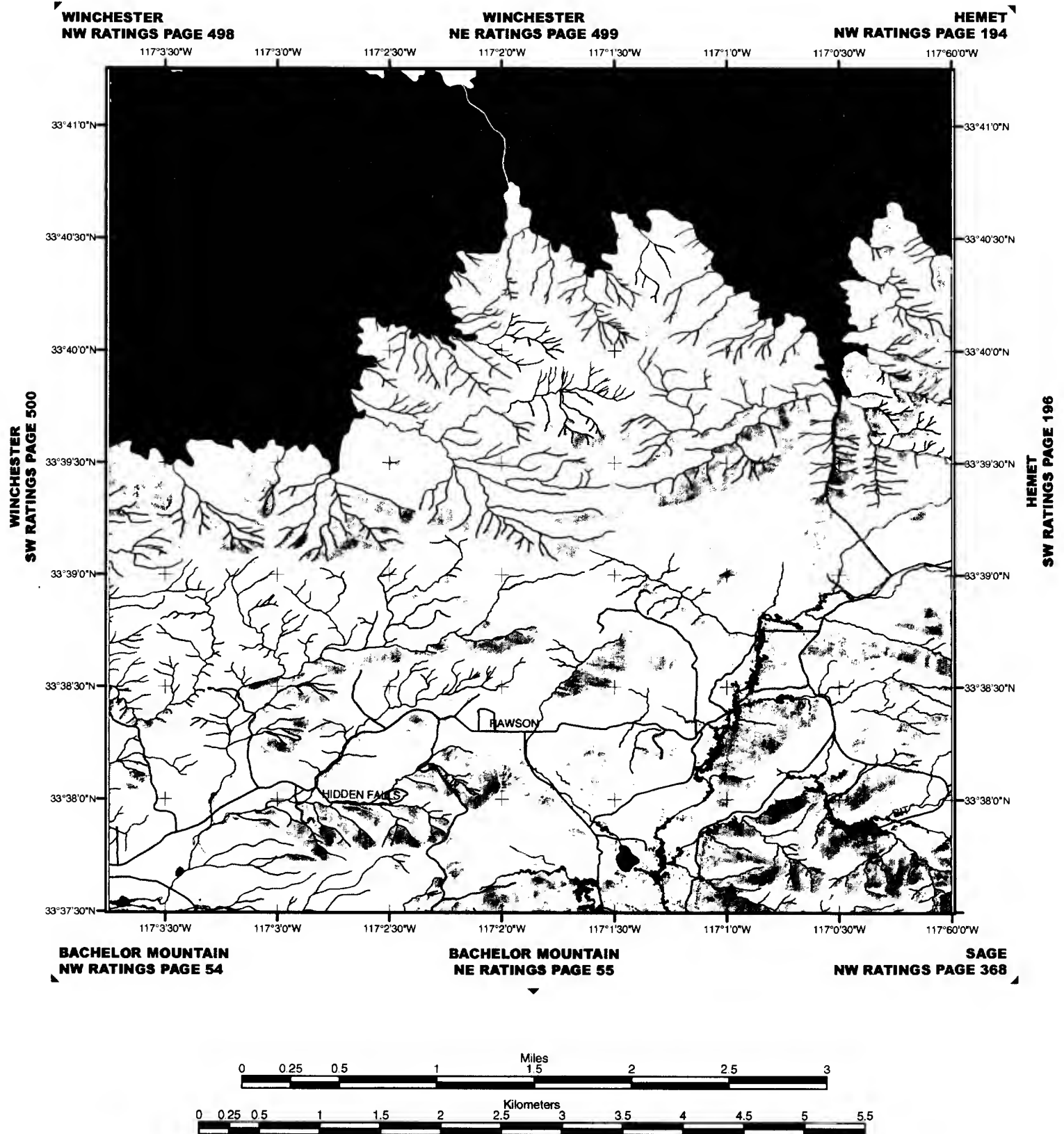




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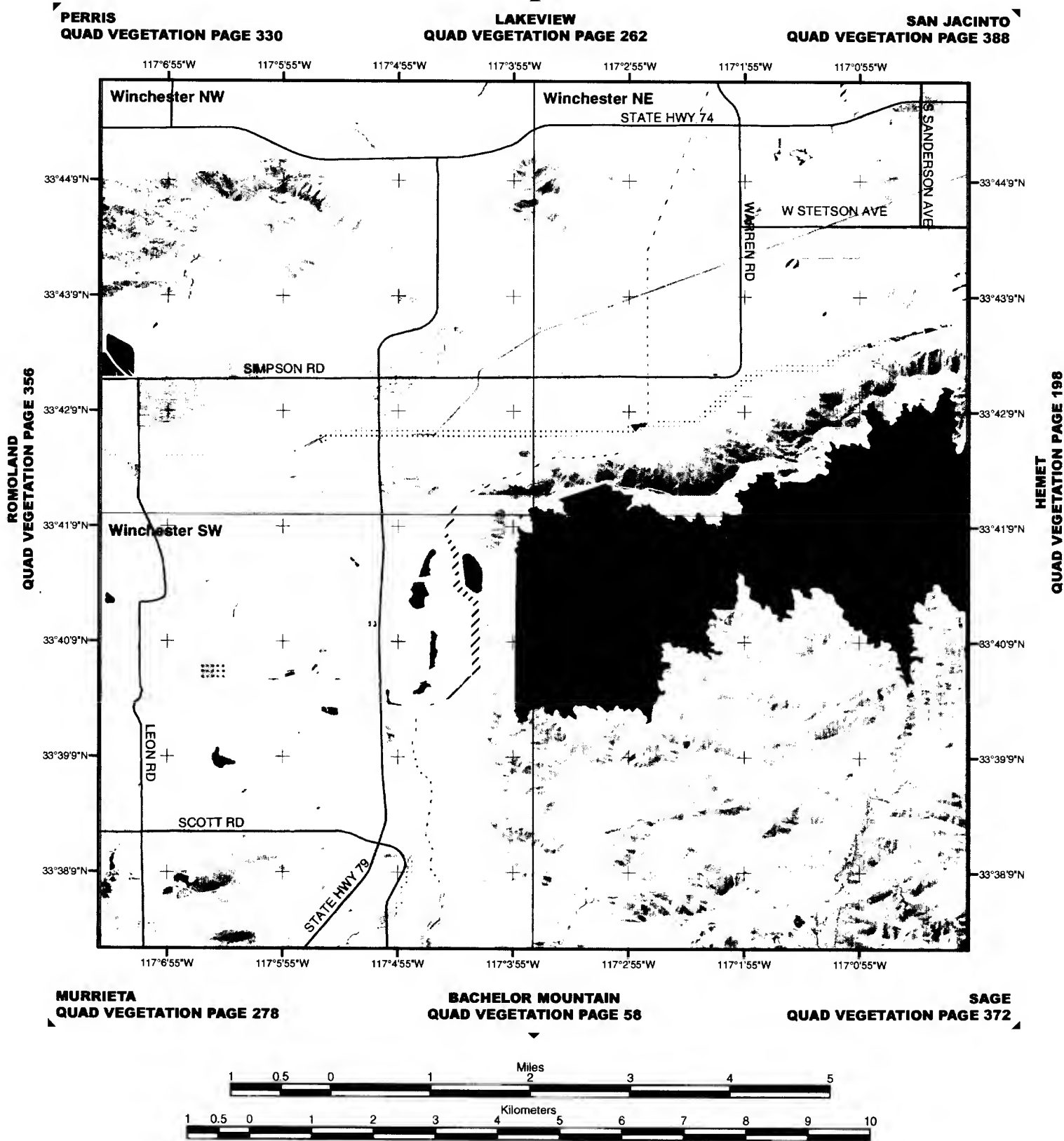


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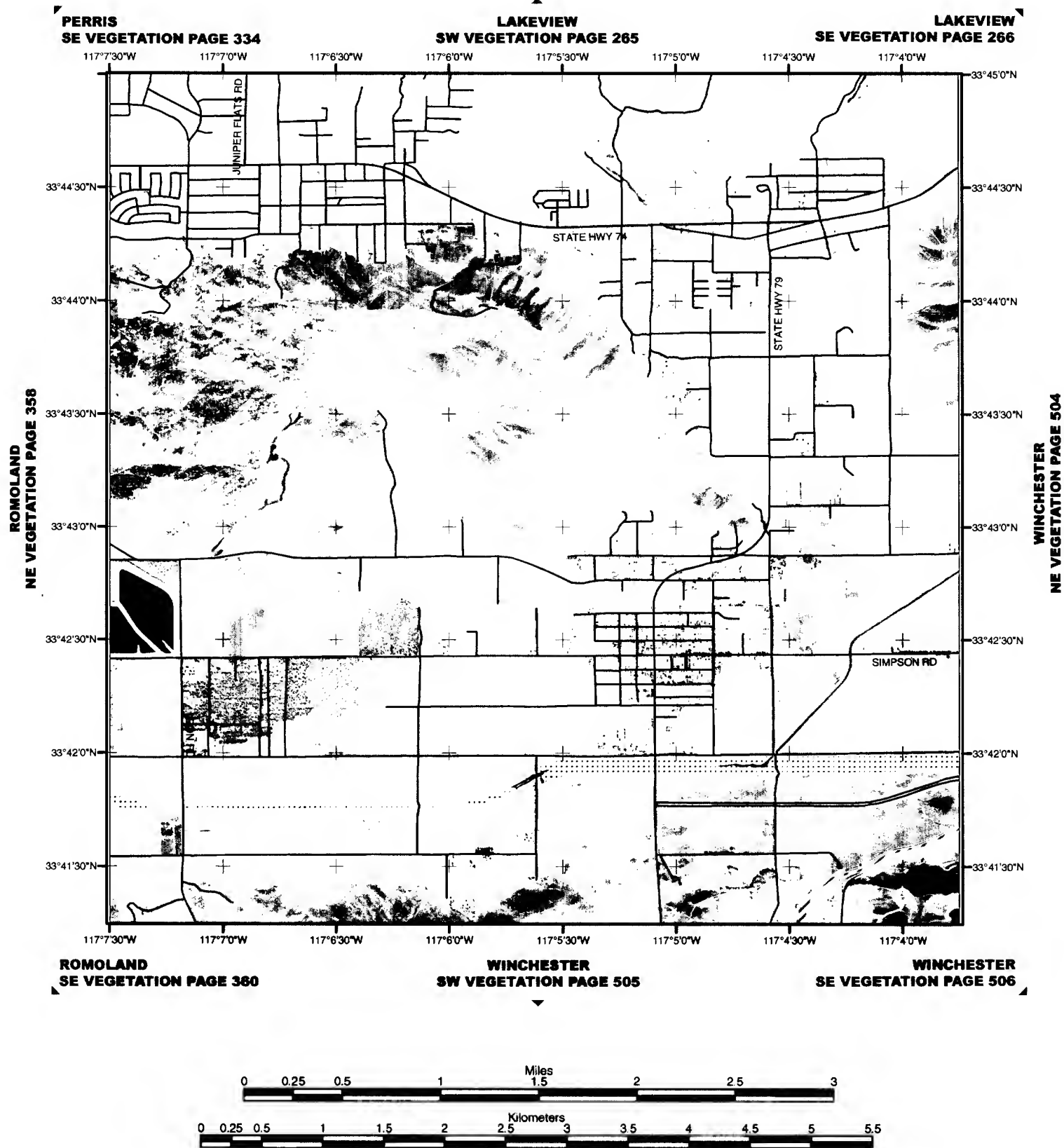


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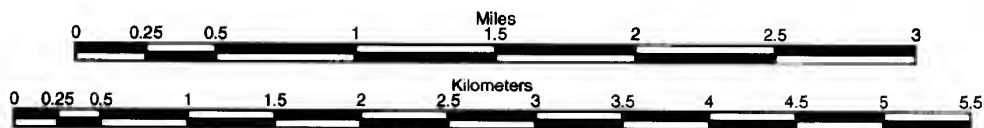
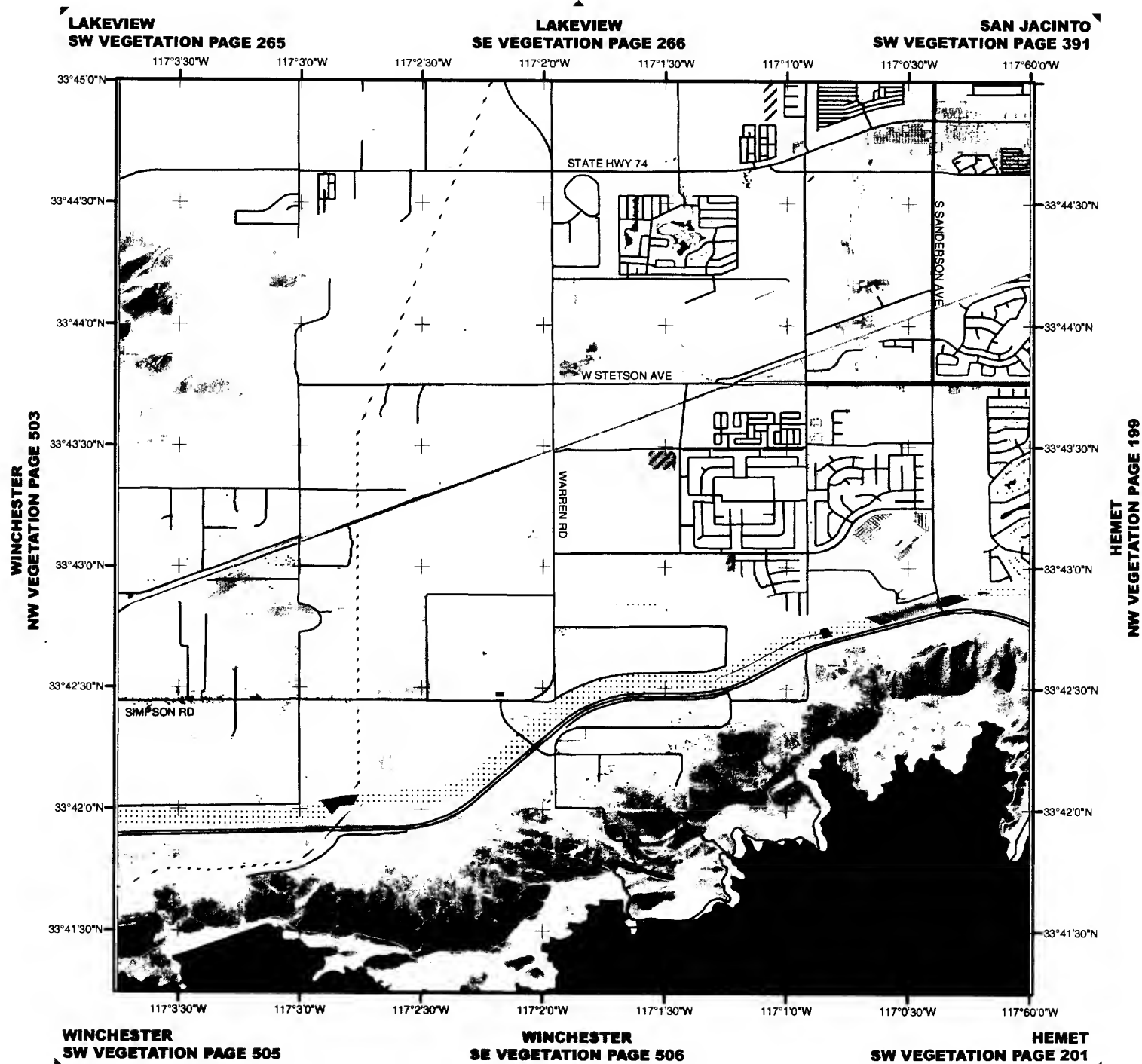
## Vegetation Species Association Units for Aquatic Resources



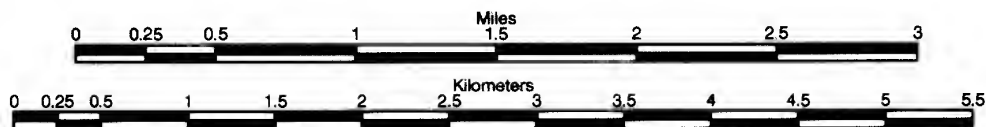
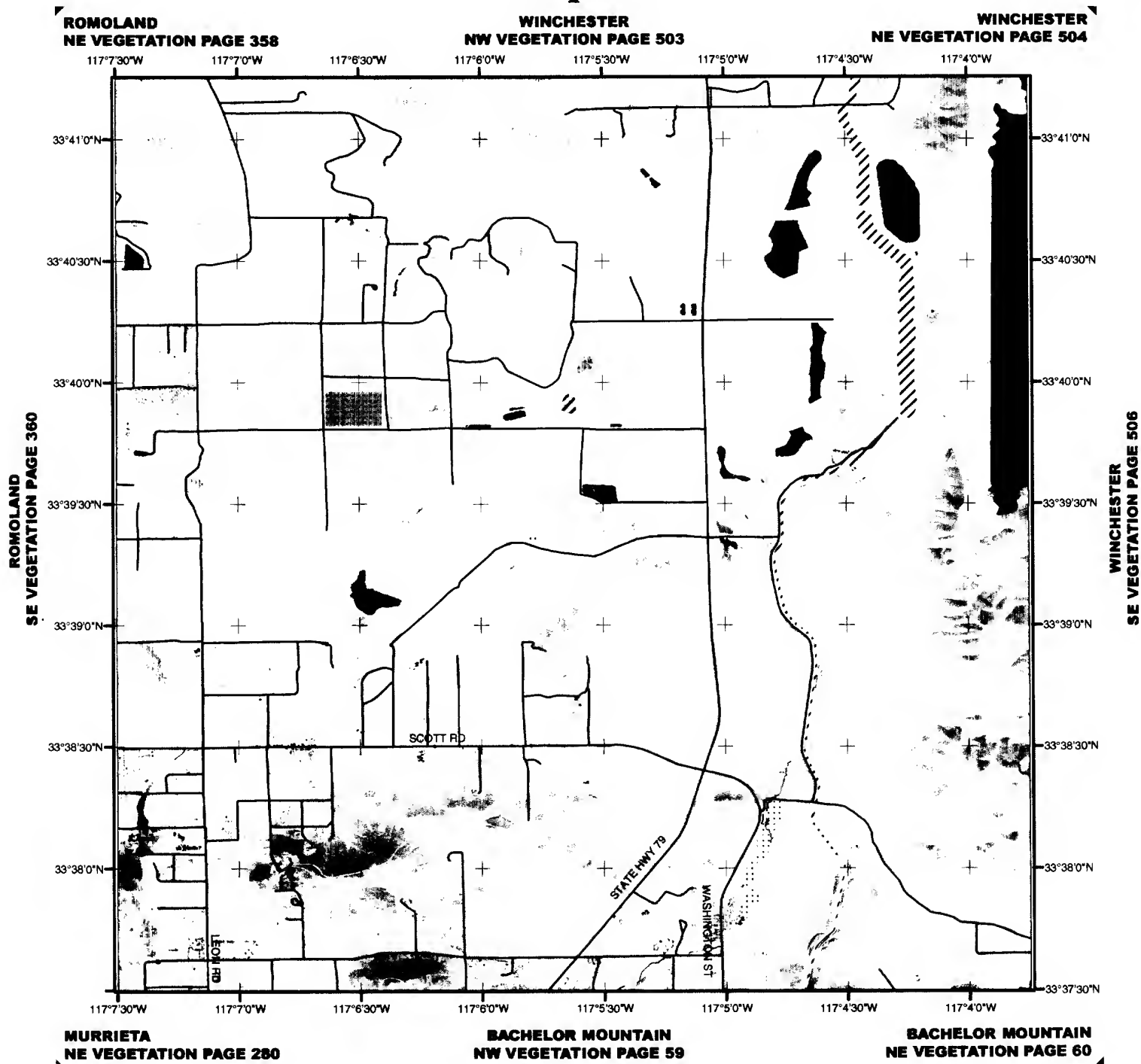
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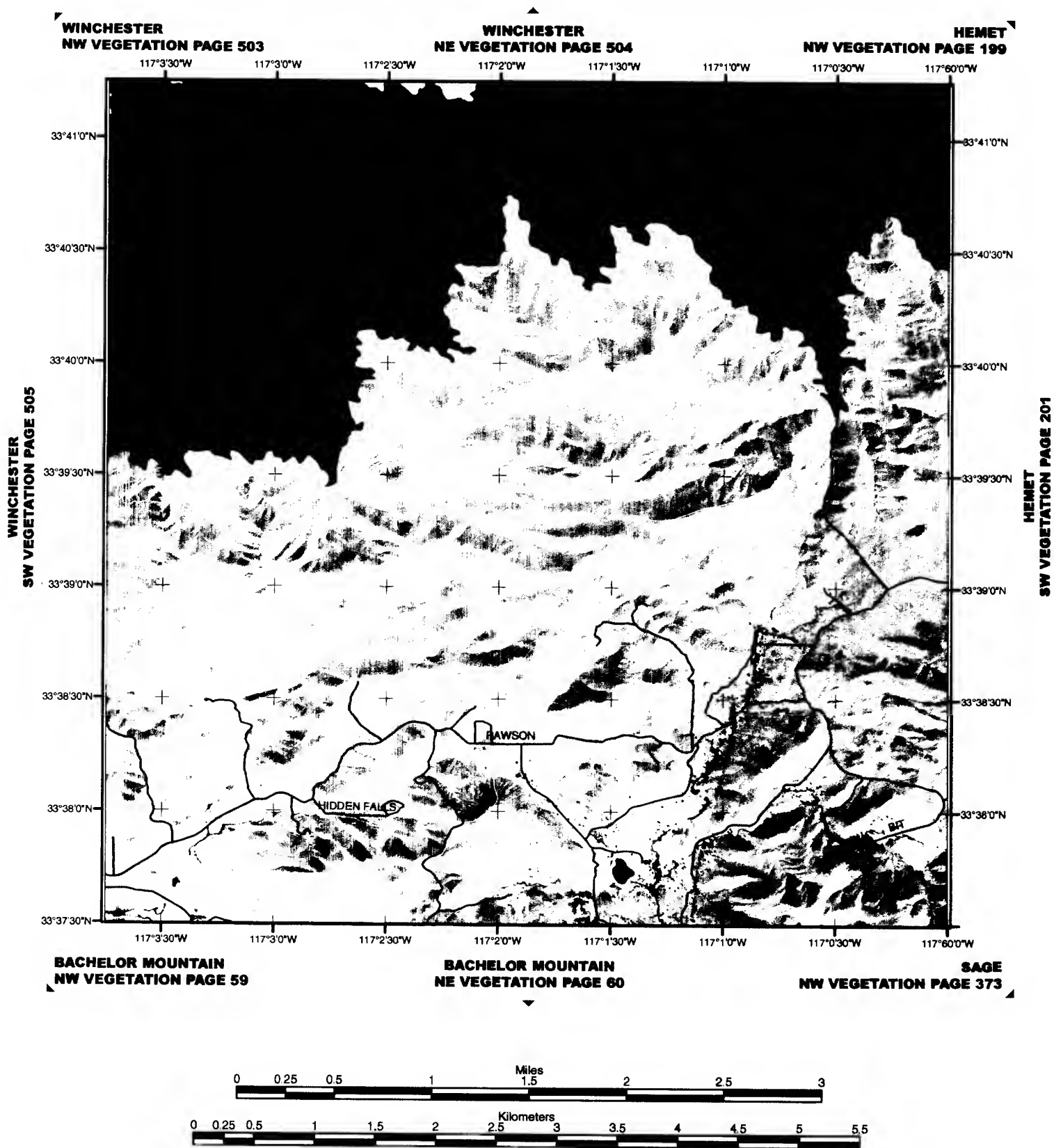
# Winchester North East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



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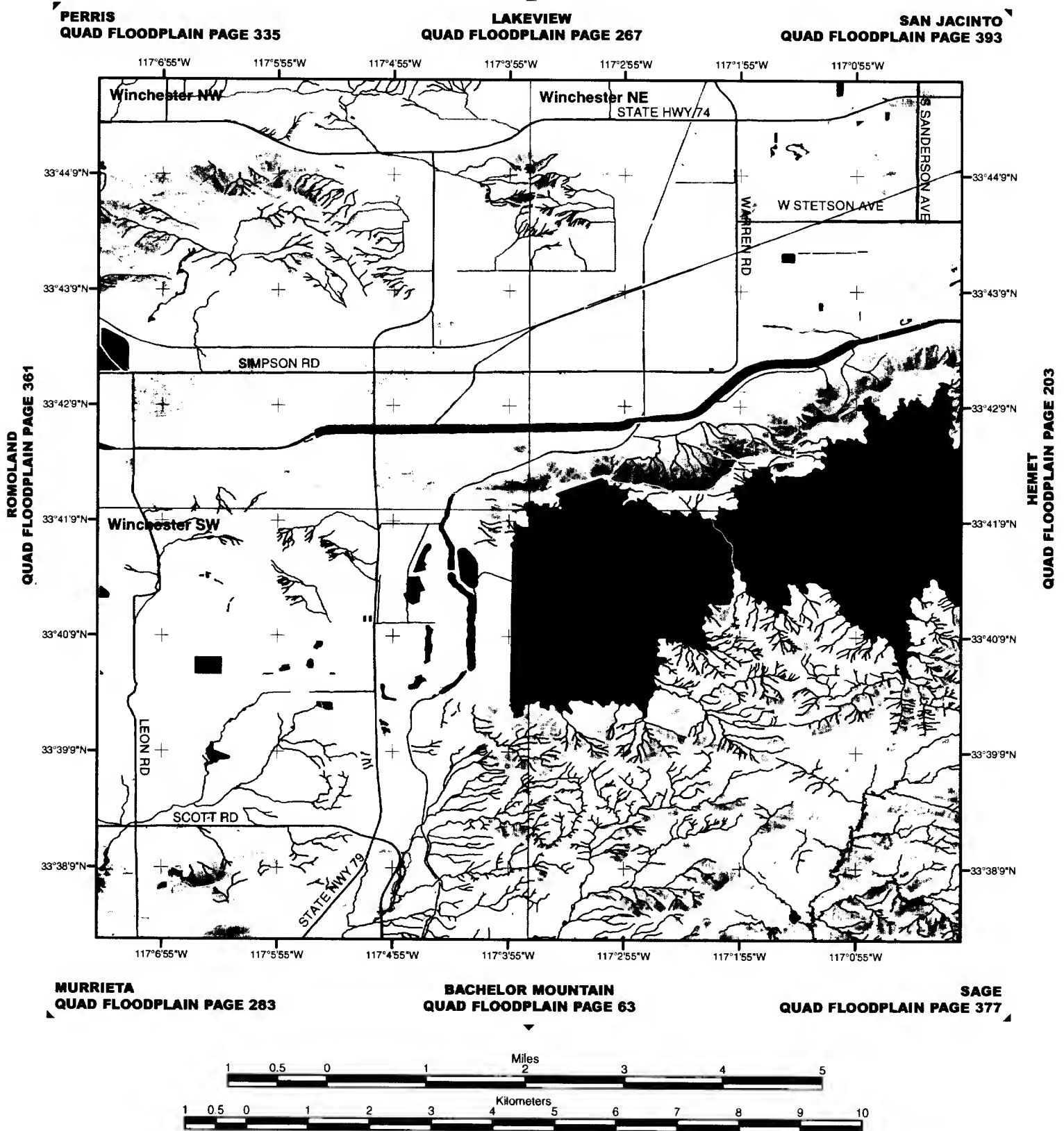


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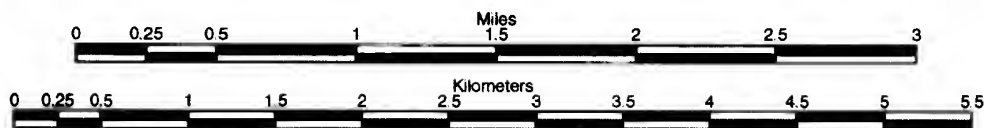
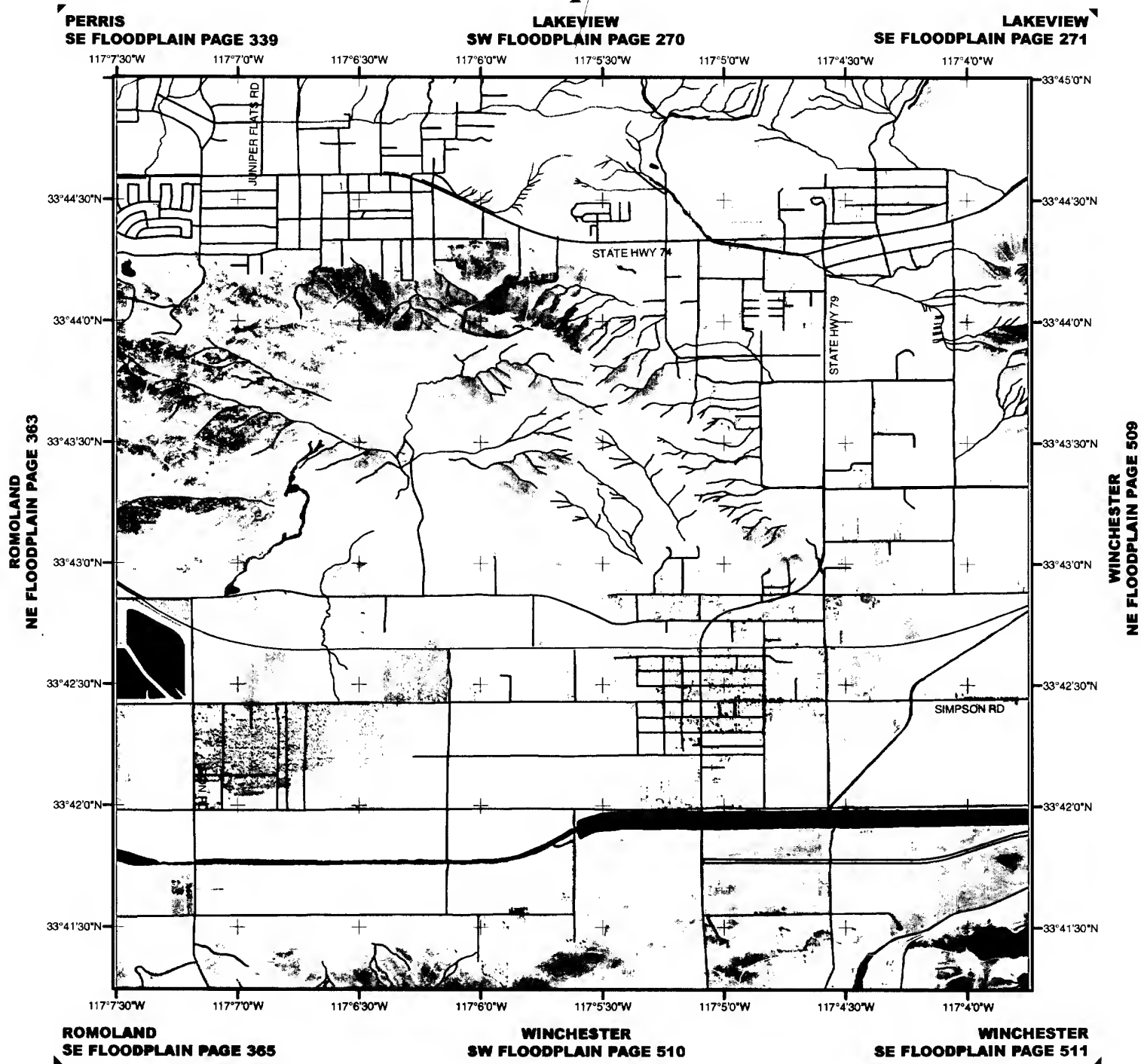
# Winchester Quadrangle

## Hydrogeomorphic Floodplain Units for Aquatic Resources

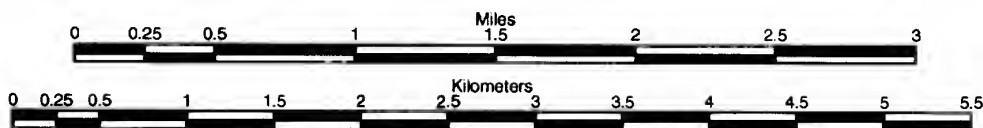
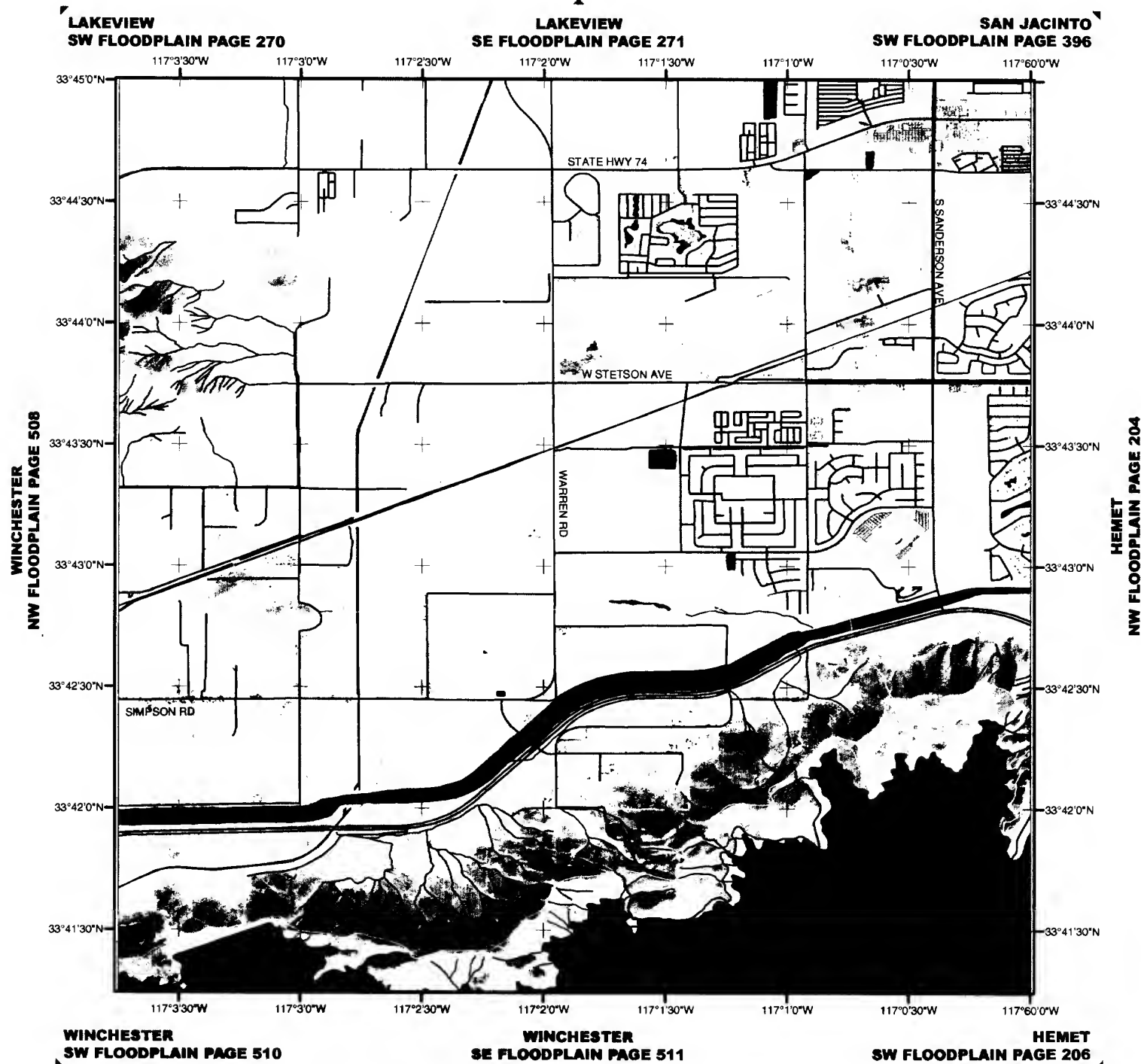




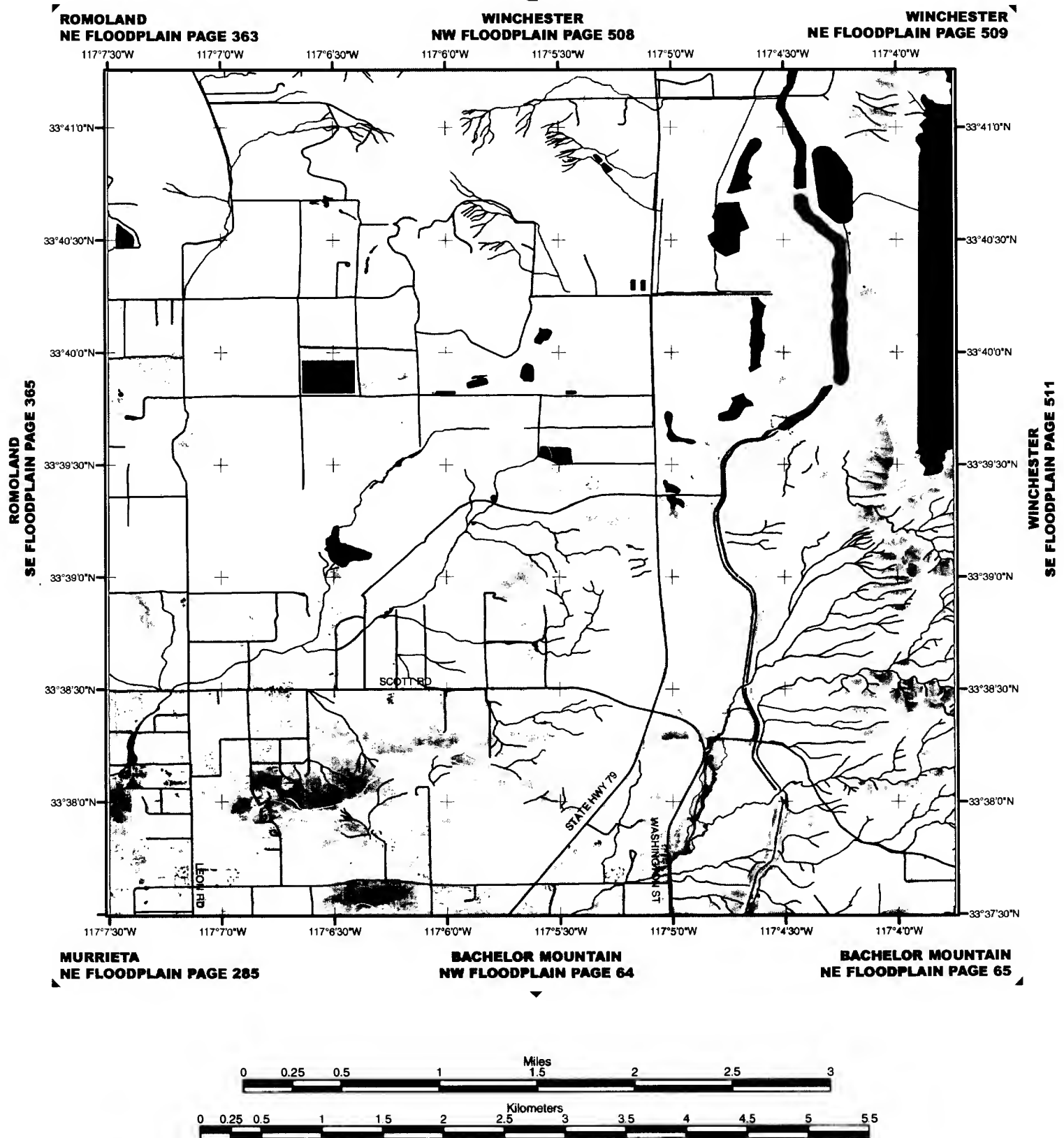
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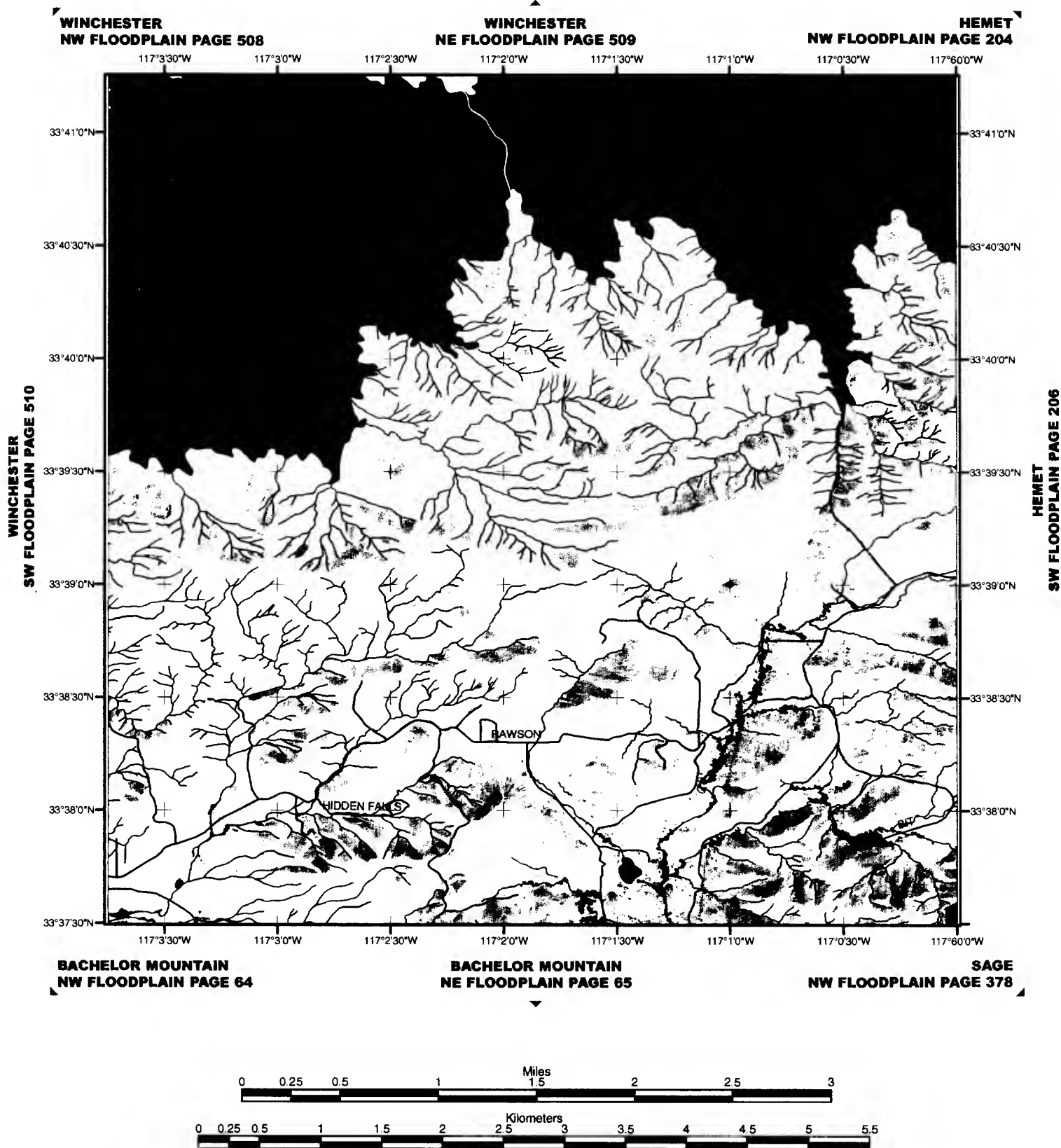
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# Winchester South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



# Winchester South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources





# Map Legend

## Boundaries

San Jacinto and Portions of the Santa Margarita Watershed  
Hydrologic Sub Area

## Transportation

— Roads  
— Freeways

## Regulatory Probability Rating Units

- 1 Types meet the criteria for a wetland or WoUS 100% of the time
  - 1 Springs meet the criteria for a wetland or WoUS 100% of the time
  - 1 Washes meet the criteria for a wetland or WoUS 100% of the time
- 2 Types meet the criteria for a wetland or WoUS 67 - 98% of the time
  - 3 Types meet the criteria for a wetland or WoUS 33 - 66% of the time.
  - 4 Types meet the criteria for a wetland or WoUS 2 - 32% of the time (primarily uplands)
- 5 Types meet the criteria for a wetland or WoUS <2% of the time (primarily uplands)
- 6 Unregulated upland
- Problematic Active Floodplain

## Hydrogeomorphic Floodplain Units

- Abandoned Floodplain/Terrace (Inundation Re occurrence Interval Between 10 and 100 years)
- Active Floodplain (Inundation Re occurrence Interval Between 1 and 10 years)
- Non Floodplain Riparian (Inundation Re occurrence Interval >100 years)
- Problematic Active Floodplain (Inundation Re occurrence Interval Between 1 and 10 years)
  - Springs (Inundation Re occurrence Interval of 2 years)
  - Washes (Inundation Re occurrence Interval of 2 years)

## Vegetation Species Association Units

### Artificial Structure

- Aqueduct
- Constructed Wetlands
- Disturbed Sites
- Flood Control Structure
- Lined Pond/Fountain
- Pond
- Retention Basin
- Sewage Pond

### Juncus Meadow

- Juncus effusus*
- Juncus mexicanus*

### Water Body

- Freshwater Pond
- Lake
- Pond
- River
- Spring

### Montane Forest

- Abies concolor*
- Pinus coulteri*
- Pinus jeffreyi*
- Pinus ponderosa*
- Pseudotsuga macrocarpa*

### Herbaceous

- Native
  - Riparian Dry (Dry Species)
  - Riparian Moist (Moist Species)
  - Riparian Wet (Wet Species)
- Non Native
  - Agricultural Weeds
  - Common Weeds

### Grassland

#### Native

- Leymus triticoides*
- Muhlenbergia rigens*
- Polypogon* spp.
- Sporobolus* spp.
- Stipa pulchra*

#### Non Native

- Agropyron repens*
- Avena barbata*
- Avena fatua*
- Bromus diandrus*
- Bromus rubens*
- Bromus tectorum*
- Cynodon plectostachyus*
- Echinochloa muricata*
- Hordeum leporinum*
- Lolium perenne*

### Chaparral

- Adenostoma sparsifolium*
- Arctostaphylos pungens*
- Arctostaphylos* spp.
- Baccharis sarathroides*
- Ceanothus tomentosus*
- Quercus berberidifolia*
- Rhus integrifolia*
- Rhus ovata*
- Rhus trilobata*

### Alkali Marsh

- Alkali Marsh
- Distichlis spicata*
- Typha* spp.

Problematic Active Floodplain

### Shrub

#### Native

- Salix* spp.
- Artemisia nova*
- Artemisia tridentata*
- Atriplex californica*
- Atriplex canescens*
- Baccharis pitularis*
- Baccharis salicifolia*
- Bebbia juncea*
- Brickellia californica*
- Chilopsis linearis*
- Encelia farinosa*
- Eriodictyon crassifolium*
- Eriogonum fasciculatum*
- Eriogonum wrightii*
- Gutierrezia sarothrae*
- Isocoma menziesii*
- Juniperus californica*
- Lepidospartum squamatum*
- Salix exigua*
- Salix goodingii*
- Salix laevigata*
- Salix lasiolepis*
- Salix melanopsis*
- Salvia mellifera*
- Sambucus mexicana*
- Senecio flaccidus*

#### Non Native

- Nicotiana glauca*
- Olea europea*
- Tamarix* spp.

Man Made Structures\_\_Disturbed Sites

### Trees/Woodland/Forest

#### Native

- Alnus rhombifolia*
- Fraxinus dipetala*
- Fraxinus velutina*
- Platanus racemosa*
- Populus balsamifera*
- Populus fremontii*
- Quercus agrifolia*
- Quercus chrysolepis*
- Quercus engelmannii*
- Quercus kelloggii*
- Salix exigua*
- Salix goodingii*
- Salix laevigata*
- Salix lasiolepis*
- Salix* spp.
- Washingtonia filife*

#### Non Native

- Eucalyptus* spp.
- Schinus molle*

### Freshwater Marsh

- Azolla filiculoides*
- Disturbed Wetland
- Eleocharis* spp.
- Juncus effusus*
- Juncus mexicanus*
- Scirpus acutus*
- Scirpus americanus*
- Scirpus microcarpus*
- Typha* spp.

### Unvegetated

- Dry Wash Channel
- Lakeshore

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14. ABSTRACT The purpose of the map series presented here is to visually present the identified aquatic resources in San Jacinto River and portions of the Santa Margarita River watersheds in western Riverside County, California, as part of the Special Area Management Plan (SAMP). A SAMP is a comprehensive aquatic resource planning effort in the context of Section 404 of the Clean Water Act (CWA). The U.S. Army Corps of Engineers, Los Angeles District is leading the development of the SAMP, and the Riverside County Flood Control District, representing the County of Riverside, is the local stakeholder. These are the spatial results of an overall study undertaken by the SAMP. The size of the study area is 36,1953 ha (894,405 acres). Mapped results of this study were compiled in the field using ArcView 3.2 geographic information system (GIS) and mapped at a scale of 1:4800 using Color Infra-Red Digital Orthoquads (DOQ) imagery. A unique method of combining the occurrence of vegetation communities and fluvial surfaces to determine the probability of being regulated was used to identify aquatic resources that might be considered as regulated under Section 404 of the CWA.									
15. SUBJECT TERMS <table border="0" style="width: 100%;"> <tr> <td>Clean Water Act Fluvial</td> <td>Riparian SAMP</td> <td>Watershed Wetlands</td> <td>Vegetation</td> </tr> </table>						Clean Water Act Fluvial	Riparian SAMP	Watershed Wetlands	Vegetation
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